B&A Buys & Associates, Inc.
Environmental Consultants

2580 Creekview Road
Moab, Utah 84532
435/719-2018 435/719-2019 Fax

November 7, 2007

Mrs. Diana Mason
State of Utah
Division of Oil Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill—XTO Energy, Inc.
LCU 16-36F - 815' FSL & 471' FEL, SE/4 SE/4,
Section 36, T10S, R20E, SLB&M, Uintah County, Utah

Dear Diana;

On behalf of XTO Energy, Inc. Buys & Associates, Inc. respectfully submits the enclosed original and one copy of the Application for Permit to Drill (APD) for the above referenced SITLA surface and mineral vertical well The location of the surface and target location as well as all points along the intended well bore path are within Cause No. 259-01 and are not within 460 feet of the unit boundary or any uncommitted tracts. Included with the APD is the following supplemental information:

Exhibit "A" - Survey plats, layouts and photos of the proposed well site;

Exhibit "B" - Proposed location maps with access and utility corridors;

Exhibit "C" - Production site layout;

Exhibit "D" - Drilling Plan;

Exhibit "E" - Surface Use Plan with APD Certification;

Exhibit "F" - Typical BOP and Choke Manifold diagram;

Exhibit "G" - Cultural and Paleontological Clearance Reports.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Ken Secrest of XTO Energy, Inc. at 435-722-4521 if you have any questions or need additional information.

Sincerely,

Don Hamilton

Don Hamilton
Agent for XTO Energy, Inc.

cc: Fluid Mineral Group, BLM—Vernal Field Office
Ken Secrest, XTO Energy, Inc.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO: ML-47391	6. SURFACE: State
1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐	7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
B. TYPE OF WELL: OIL ☐ GAS ☑ OTHER _____ SINGLE ZONE ☐ MULTIPLE ZONE ☑	8. UNIT or CA AGREEMENT NAME: Little Canyon Unit
2. NAME OF OPERATOR: XTO Energy, Inc.	9. WELL NAME and NUMBER: LCU 16-36F
3. ADDRESS OF OPERATOR: P.O. Box 1360 CITY Roosevelt STATE UT ZIP 84066 / PHONE NUMBER: (435) 722-4521	10. FIELD AND POOL, OR WILDCAT: ~~undesignated~~ Natural Buttes
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 815' FSL & 471' FEL, 619255X 4417259Y 39.898916 -109.605034 AT PROPOSED PRODUCING ZONE:	11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 36 10S 20E S
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 13.64 miles southeast of Ouray, Utah	12. COUNTY: Uintah / 13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): 471'	16. NUMBER OF ACRES IN LEASE: 640 / 17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): 1,601'	19. PROPOSED DEPTH: 9,060 / 20. BOND DESCRIPTION: 104312 762
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5,370' ungraded ground	22. APPROXIMATE DATE WORK WILL START: 1/15/2008 / 23. ESTIMATED DURATION: 14 days

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
17.5"	14" conductor	60'	
12-1/4"	9-5/8" J-55 ST 36#	2,200	see Drilling Plan
7-7/8"	5-1/2" N-80 LT 17#	9,060	see Drilling Plan

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☐ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
- ☑ COMPLETE DRILLING PLAN
- ☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Don Hamilton TITLE Agent for XTO Energy, Inc.

SIGNATURE Don Hamilton DATE 11/7/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-38784

Approved by the
Utah Division of
Oil, Gas and Mining

(See Instructions on Reverse Side)

Date: 12-17-07

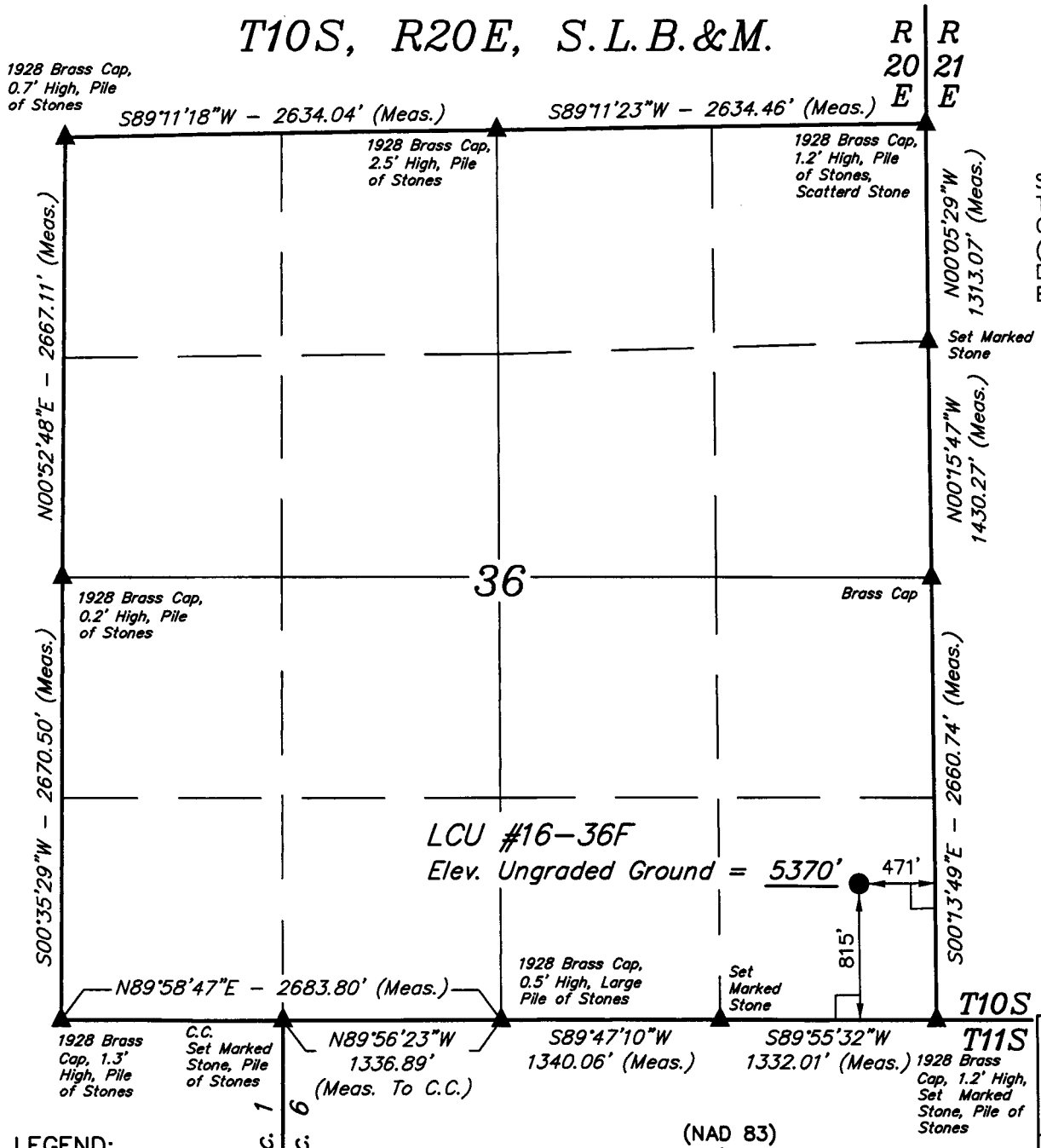
By: [signature]

RECEIVED
NOV 09 2007
DIV. OF OIL, GAS & MINING

(11/2001)

XTO ENERGY, INC.

Well location, LCU #16-36F, located as shown in the SE 1/4 SE 1/4 of Section 36, T10S, R20E, S.L.B.&M., Uintah County Utah.

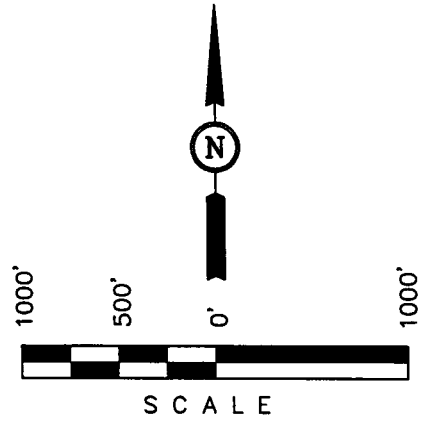


BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R20E, S.L.B.&M., TAKEN FROM THE BIG PACK MTN. NW, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5251 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. MAY
STATE OF UTAH

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 39°53'55.98" (39.898883)
LONGITUDE = 109°36'20.55" (109.605708)
(NAD 27)
LATITUDE = 39°53'56.10" (39.898917)
LONGITUDE = 109°36'18.07" (109.605019)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	09-13-07	09-18-07
PARTY: B.B. K.D. S.L.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: XTO ENERGY, INC.	

XTO ENERGY INC.

LCU 16-36F
APD Data
November 6, 2007

Location: 815' FSL & 471' FEL, Sec. 36, T10S,R20E **County:** Uintah **State:** Utah

GREATEST PROJECTED TD: 9060' MD OBJECTIVE: Wasatch/Mesaverde
APPROX GR ELEV: 5370' Est KB ELEV: 5384' (14' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 2200'	2200' to 9060'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud/Air	KCl Based LSND / Gel Chemical
WEIGHT	8.4	8.6-9.20
VISCOSITY	NC	30-60
WATER LOSS	NC	8-15

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes. The mud system will be monitored visually/manually.

2. CASING PROGRAM:

Surface Casing: 9.625" casing set at ± 2200' in a 12.25" hole filled with 8.4 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-2200'	2200'	36#	J-55	ST&C	2020	3.66	394	8.921	8.765	2.10	3.66	4.97

Production Casing: 5.5" casing set at ±9060' in a 7.875" hole filled with 9.2 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-9060'	9060'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.83	2.26	2.26

Collapse and burst loads calculated at TVD with 0.1 psi/ft gas gradient back up.

3. WELLHEAD:

A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 8-5/8" 8rnd thread on bottom (or slip-on, weld-on) and 11-3/4" 8rnd thread on top.
B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 5,000 psig WP, 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

4. CEMENT PROGRAM:

A. Surface: 9.625", 36#, J-55, ST&C casing to be set at ±2200' in 12.25" hole.

LEAD:
±362 sx of Type V cement (or equivalent) typically containing accelerator and LCM.
(12.8 ppg / yield 1.92 ft³/sx)

TAIL:
225 sx of Type V cement (or equivalent) typically containing accelerator and LCM.
(15.8 ppg / yield 1.15 ft³/sx)

Total estimated slurry volume for the 9.625" surface casing is 956.5 ft³. Slurry includes 35% excess of calculated open hole annular volume to 2200'.

B. Production: 5.5", 17#, N-80 (or equiv.), LT&C casing to be set at ±9060' in 7.875" hole.

LEAD:
±461 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.6 ppg, 3.12 ft³/sk, 17.71 gal wtr/sx.

TAIL:
300 sx Class G or equivalent cement with poz, bonding additive, LCM, dispersant, & fluid loss mixed at 13.0 ppg, 1.75 cuft/sx, 9.09 gal/sx.

Total estimated slurry volume for the 5.5" production casing is 1965 ft³. Slurry includes 15% excess of calculated open hole annular volume.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 15% or greater excess. The cement is designed to circulate on surface and intermediate casing strings.

5. LOGGING PROGRAM:

A. Mud Logger: The mud logger will come on at intermediate casing point and will remain on the hole until TD. The mud will be logged in 10' intervals.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (9060') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (9060') to 2200'.

6. FORMATION TOPS:

FORMATION	Sub-Sea Elev. (@SHL)	TVD (@SHL)
Wasatch Tongue	1,670	3,719
Green River Tongue	1,340	4,049
Wasatch*	1,210	4,179
Chapita Wells*	475	4,914
Uteland Buttes	-695	6,084
Mesaverde*	-1,465	6,854
Castlegate	N/A	N/A
TD**	-3781	9090

** Primary Objective*

7. ANTICIPATED OIL, GAS, & WATER ZONES:

A.

Formation	Expected Fluids	Well Depth Top
Wasatch Tongue	Oil/Gas/Water	3,719
Green River Tongue	Oil/Gas/Water	4,049
Wasatch*	Gas/Water	4,179
Chapita Wells*	Gas/Water	4,914
Uteland Buttes	Gas/Water	6,084
Mesaverde*	Gas/Water	6,854
Castlegate	Gas/Water	N/A

A. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.
B. There are no known potential sources of H_2S.
C. Expected bottom hole pressures are between 4100 psi and 4600 psi.

8. BOP EQUIPMENT:

Surface will not utilize a bop stack.

Intermediate hole will be drilled using a diverter stack with rotating head rated at 250 psi w.p.

Production hole will be drilled with a 3000 psi BOP stack.

Minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double ram with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70% of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

a. when initially installed:

b. whenever any seal subject to test pressure is broken

c. following related repairs: and

d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No.2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests. Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Test pressures for BOP equipment are as follows:

Annular BOP -- 1500 psi
Ram type BOP -- 3000 psi
Kill line valves -- 3000 psi
Choke line valves and choke manifold valves -- 3000 psi
Chokes -- 3000 psi
Casing, casinghead & weld -- 1500 psi
Upper kelly cock and safety valve -- 3000 psi
Dart valve -- 3000 psi

Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The BLM in Vernal, UT shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

a. The size and rating of the BOP stack is shown on the attached diagram.

b. A choke line and a kill line are to be properly installed.

c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.

d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

e. See attached BOP & Choke manifold diagrams.

9. COMPANY PERSONNEL:

Name	Title	Office Phone	Home Phone
John Egelston	Drilling Engineer	505-333-3163	505-330-6902
Bobby Jackson	Drilling Superintendent	505-333-3224	505-486-4706
Glen Christiansen	Project Geologist	817-885-2800	

SURFACE USE PLAN

CONDITIONS OF APPROVAL

Name of Operator:	XTO Energy, Inc.
Address:	P.O. Box 1360; 978 North Crescent Roosevelt, Utah 84066
Well Location:	LCU 16-36F 815' FSL & 471' FEL, SE/4 SE/4, Section 36, T10S, R20E, SLB&M, Uintah County, Utah

A Uintah County Road encroachment is necessary to construct the new access from the existing Uintah County Road 2810 (Seep Ridge Road).

The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of approval before initiating construction.

The onsite inspection for the referenced well is pending at this time.

1. Location of Existing Roads:

   a. The proposed well site is located approximately 13.64 miles southeast of Ouray, UT.

   b. Directions to the proposed well site have been attached at the end of Exhibit B.

   c. The use of roads under State and County Road Department maintenance are necessary to access the Little Canyon Unit area. A Uintah County Road encroachment is necessary to construct the new access from the existing Uintah County Road 2810 (Seep Ridge Road).

   d. All existing roads will be maintained and kept in good repair during all phases of operation.

   e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.

   f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.

   g. An off-lease federal Right-of-Way is not anticipated for the access road since access presently exists to the lease boundary servicing the LCU 16-36F.

2. New or Reconstructed Access Roads:

   a. From the existing Uintah County Road 2810 (Seep Ridge Road) an access is proposed trending southwest approximately 130' to the proposed well site. The access consists of entirely new disturbance and crosses no significant drainages. A road design plan is not anticipated at this time.

   b. The proposed access road will consist of a 24' travel surface within a 30' disturbed area.

   c. SITLA approval to construct and utilize the proposed access road is requested with this application.

d. A maximum grade of 10% will be maintained throughout the project with no cuts and fills required to access the well.

e. No turnouts are proposed since the access road is only 130' long and adequate site distance exists in all directions.

f. No low-water crossings are necessary, One culvert is anticipated as the proposed access road leaves the county road surface. Adequate drainage structures will be incorporated into the road.

g. No surfacing material will come from federal or Indian lands.

h. No gates or cattle guards are anticipated at this time.

i. Surface disturbance and vehicular travel will be limited to the approved location access road.

j. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

k. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

a. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Existing and/or Proposed Production Facilities:

a. All permanent structures will be painted a flat, non-reflective Desert Brown /Carlsbad Canyon to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.

c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162. 7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

d. A tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.

e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.

f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.

g. The site will require periodic maintenance to ensure that drainages are kept open and free of

debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

h. A pipeline corridor containing a single steel gas pipeline and a single steel or poly pipe water pipeline is associated with this application and is being applied for at this time. The proposed pipeline corridor will leave the north side of the well site and traverse 65' east to the existing LCU 8-36F pipeline corridor

i. The gas pipeline will be a 12" or less buried line and the water pipeline will be a 12" or less buried line within a 75' wide disturbed pipeline corridor. The use of the proposed well site and access roads will facilitate the staging of the pipeline corridor construction. A new buried pipeline corridor length of approximately 65' is associated with this well.

j. An existing pipeline corridor upgrade is proposed from the existing LCU 8-36F tie-in location to the LCU compressor facility along the existing pipeline route.

k. The gas pipeline will be a 12" or less buried line and the water pipeline will be a 12" or less buried line within a single trench and within a 75' wide disturbed pipeline corridor. The use of the existing well site and access roads will facilitate the staging of the pipeline corridor upgrade. An upgrade to a 75' wide buried pipeline corridor of approximately 600' is associated with this application.

l. The proposed pipeline and pipeline upgrade are contained within SITLA surface.

m. XTO Energy, Inc. intends to bury the pipeline where possible and connect the pipeline together utilizing conventional welding technology.

5. Location and Type of Water Supply:

a. No water supply pipelines will be laid for this well.

b. No water well will be drilled for this well.

c. Drilling water for this will be hauled on the road(s) shown in Attachment No. 3.

d. Water will be hauled from one of the following sources:
   - Water Permit # 43-10447, Section 33, T8S, R20E;
   - Water Permit #43-2189, Section 33, T8S, R20E;
   - Water Permit #49-2158, Section 33, T8S, R20E;
   - Water Permit #49-2262, Section 33, T8S, R20E;
   - Water Permit #49-1645, Section 5, T9S, R22E;
   - Water Permit #43-9077, Section 32, T6S, R20E;
   - Tribal Resolution 06-183, Section 22, T10S, R20E;

6. Source of Construction Material:

a. The use of materials will conform to 43 CFR 3610.2-3.

b. No construction materials will be removed from Ute Tribal or BLM lands.

c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste:

a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.

b. Drill cuttings will be contained and buried on site.

c. The reserve pit will be located outboard of the location and along the west side of the pad.

d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.

e. The reserve pit will be lined with 16 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.

f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.

g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.

h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.

i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.

j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved XTO Energy, Inc. disposal well for disposal.

k. Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order #7.

l. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.

m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.

b. No camps, airstrips or staging areas are proposed with this application.

9. Well Site Layout: (See Exhibit B)

a. The well will be properly identified in accordance with 43 CFR 3162.6.

b. Access to the well pad will be from the east.

c. The pad and road designs are consistent with SITLA specification

d. A pre-construction meeting with responsible company representative, contractors, and the SITLA will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.

e. The pad has been staked at its maximum size; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.

f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.

h. Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.

i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.

j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.

k. Pits will remain fenced until site cleanup.

l. The blooie line will be located at least 100 feet from the well head.

m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface (Interim Reclamation and Final Reclamation):

a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.

b. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated

before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.

c. Following BLM published Best Management Practices the interim reclamation will be completed within 90 days of completion of the well to reestablish vegetation, reduce dust and erosion and compliment the visual resources of the area.
   a. All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be backfilled and re-contoured.
   b. The area outside of the rig anchors and other disturbed areas not needed for the operation of the well will be re-contoured to blend with the surrounding area and reseeded at 12 lbs /acre with the following native grass seeds:
      - Crested Wheat Grass (6 lbs / acre)
      - Needle and Thread Grass (3 lbs / acre)
      - Rice Grass (3 lbs / acre)
   c. Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.

d. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the SITLA or the appropriate County Extension Office. On SITLA administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.

e. Prior to final abandonment of the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the SITLA. The SITLA recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

a. Surface Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.

b. Mineral Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.

12. Other Information:

a. Operators Contact Information:

Title	Name	Office Phone	Mobile Phone	e-mail
Company Rep.	Ken Secrest	435-722-4521	435-828-1450	Ken_Secrest@xtoenergy.com
Agent	Don Hamilton	435-719-2018	435-719-2018	starpoint@etv.net

b. AIA Archaeological has conducted a Class III archeological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by AIA Archaeological.

c. Alden Hamblin has conducted a paleontological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by Alden Hamblin.

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exists; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under XTO Energy, Inc's SITLA bond 104312-762. These statements are subject to the provisions of 18 U.S.C. 1001 for the fling of false statements.

Executed this 7th day of November, 2007.

Don Hamilton

Don Hamilton -- Agent for XTO Energy, Inc.
2580 Creekview Road
Moab, Utah 84532

435-719-2018
starpoint@etv.net

BOP Equipment

3000psi WP

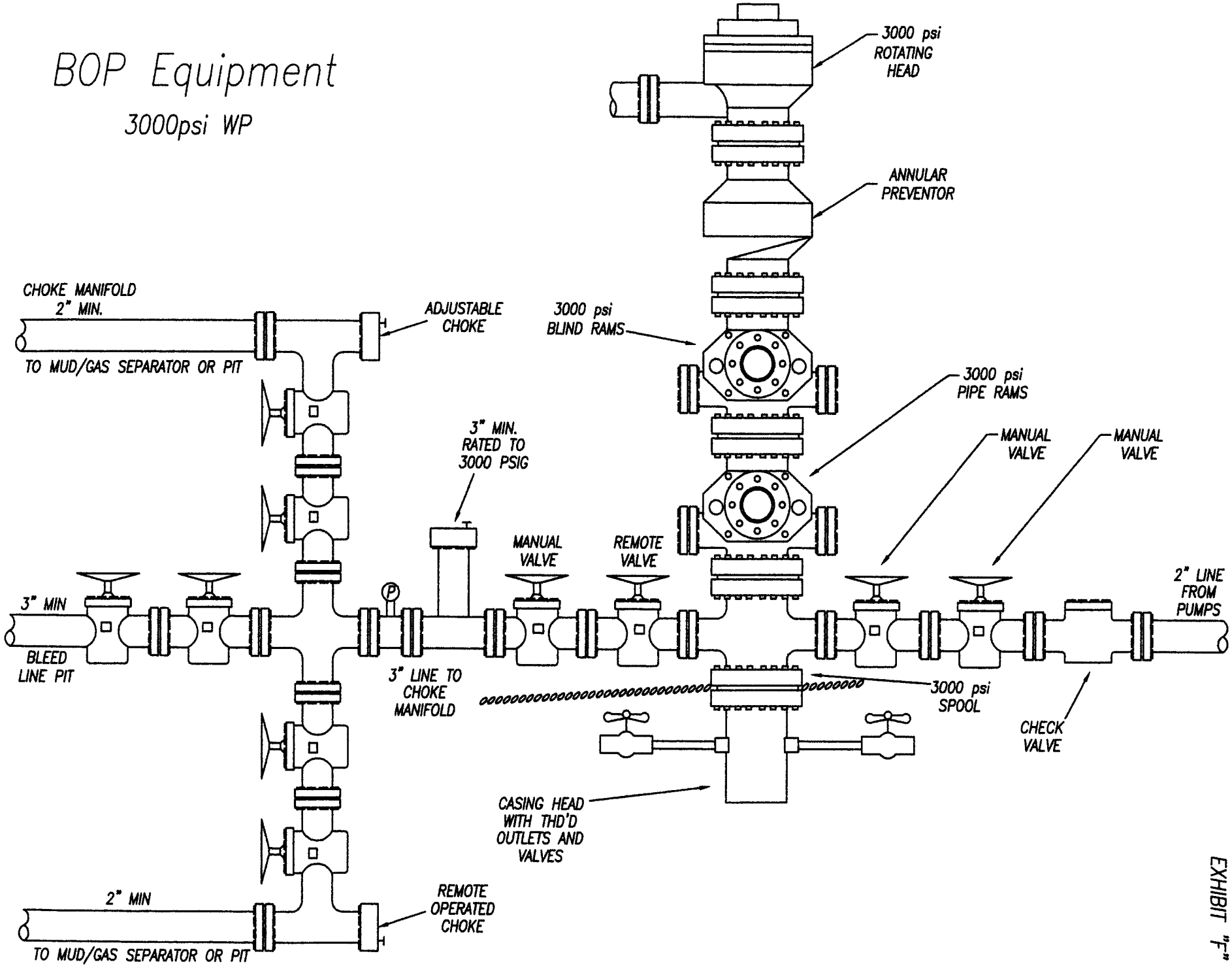


EXHIBIT "F"

XTO Energy Corporation; Little Canyon Unit #16-36F: A Cultural Resource Inventory for a well its access and pipeline, Uintah County, Utah.

By
James A. Truesdale

James A. Truesdale
Principal Investigator

Prepared For
XTO Energy Corporation
1400 North State Street
P.O.Box 1360
Roosevelt, Utah
84066

Prepared By
AN INDEPENDENT ARCHAEOLOGIST
P.O.Box 153
Laramie, Wyoming
82073

Utah Project # U-07-AY-1204(s)

October 10, 2007

Table of Contents

List of Figures

Introduction

An Independent Archaeologist (AIA) was contacted by a representative of XTO Energy Corporation to conduct a cultural resources investigation of the proposed Little Canyon Unit (LCU) #16-36F well, its access and pipeline. The location of the project area is the SE/SE 1/4 of Section 36, T10S, R20E Uintah County, Utah (Figure 1).

The proposed LCU #16-36F well's centerstake footage (Alternate #1) is 815' FSL, 471' FEL. The proposed LCU #16-36F well's centerstake Universal Transverse Mercator (UTM) coordinate is Zone 12, North American Datum (NAD) 83, 06/19/233.17mE 44/17/273.86mN.

The proposed access and pipeline is the existing Seep Ridge road and a pipeline that is adjacent immediately east of the proposed well pad.

The surface and minerals of Section 36 T10S R20E is administered by the Utah School Institutional Trust Land Administration (SITLA). A total of 10 acres (10 block, 0 linear) was surveyed. The fieldwork was conducted on October 4, 2007 by AIA owner and principal investigator James Truesdale and AIA staff Dr. David V. Hill. All the field notes and maps are located in the AIA office in Laramie, Wyoming.

File Search

A file search was conducted by the Office of the Utah Division of State History (UDSH), Antiquities Section, Records Division on May 24 and again on October 2, 2007. An additional file search was conducted at the Vernal BLM office in March of 2006 by the author. An update of AIA's USGS 7.5'/1968 (photorevised 1987) Big Pack Mountain NW quadrangle map from the UDSH's Big Pack Mountain NW quadrangle base map occurred on November 8, 2003 and again on February 3, 2004. The UDSH SHPO GIS file search reported that fourteen previous projects (U-97-AY-810, U-98-AY-283, U-01-AY-319, U-04-AY-079, U-05-AY-290, U-05-AY-332, U-05-AY-1074, U-06-AY-129, U-06-AY-130, U-06-AY-131, U-06-AY-132, U-06-AY-133, U-06-AY-424 and U-06-AY-426) have been conducted in the general area (Section 36 of T10S R20E). In addition, the Utah SHPO GIS files search indicated that one site (42UN5227) had been previously recorded in Section 36 of T10S R20E.

Site 42UN5227 is located in the SW/SE ¼ of Section 36 of T10S R20E. Thus the site is located 1/4 mile to the west of the present project area. The site will not be impacted by subsequent construction of the proposed LCU #16-36F well, its access or pipeline.

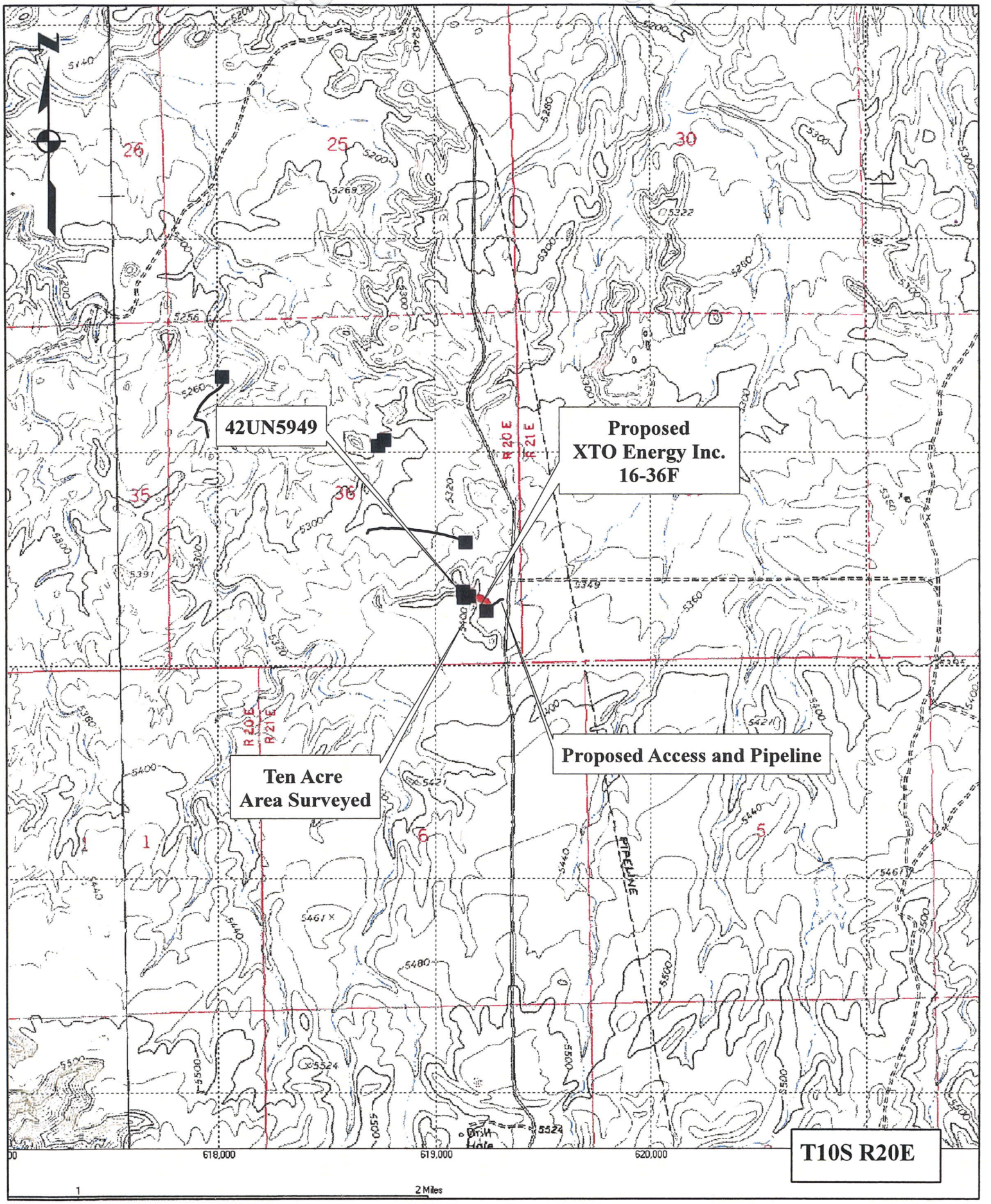


Figure 1. Location of the proposed XTO Energy Inc. 16-36F well, access and pipeline on 1968 7.5' USGS Quadrangle Map Big Pack Mountain NE, Uintah County, Utah.

Environment

Physiographically, the project is located in the Little Canyon Unit in the Uinta Basin, 14 miles south of Ouray, Utah. The Uinta Basin is structurally the lowest part of the Colorado Plateau geographical province (Thornbury 1965:425). The Uinta basin is a large, relatively flat, bowl shaped, east-west asymmetrical syncline near the base of the Uinta Mountains. The topography is characteristic of sloping surfaces that incline northward and are mainly dip slopes on the harder layers of Green River and Uinta Formations (Stokes 1986).

A thick section of more than 9000 feet (2743.9 m) of early Tertiary rocks are exposed (Childs 1950). These rocks are mainly Paleocene and Eocene in age and consist of sandstone, clay and shale lacustrine, fluviatile, and deltaic continental deposits, most famous of which are the lacustrine Green River Beds.

The immediate project area is situated on in the Willow Creek Canyon. The area is characterized as having steep ridges and/or buttes of relatively thick Uinta Formation sandstone, with thinner layers of clays and shale. The hills, ridges and buttes are dissected by several steep sided ephemeral drainage washes with wide flat alluvial plains. Portions of the desert hardpan and bedrock are covered with various sizes of residual angular to tabular pieces of eroding sandstone, clay and shale. Many of the higher hills and ridges exhibit ancient terrace (pediment) surfaces containing pebble and cobble gravel. Some of these pebbles and cobbles exhibit a dark brown to black desert varnish (patination). In addition, many of the hills and ridge slopes are covered with aeolian sand that may reach a depth of 100 to 150 cm.

Vegetation in the Little Canyon Unit area is characteristic of a low sagebrush community with shad scale and greasewood. Species observed in the project area include; big sagebrush (Artemesia tridentata), shadscale (Atriplex confertifolia), saltbush (Atriplex nuttallii), rabbitbrush (Chrysothamnus viscidiflorus), winterfat (Eurotia lanata), greasewood (Sarcobatus baileyi), wild buckwheat, Erigonum ovvalifolium), desert trumpet (Erigonum inflatum), Indian rice grass (Oryzopsis hymenoides), western wheatgrass (Agropyron smithii), spiked wheatgrass (Agropyron sp.), crested wheatgrass (Agropyron cristatum), June grass (Koeleria cristata), cheat grass (Bromus tectorum), desert globemallow (Bromus tectorum), lupine (Lupinus sp.), larkspur (Delphinium sp.), Indian paintbrush (Castilleja chromosa), peppergrass (Lepidium perfoliatum), scalloped phacelia (Phacelia intergrifolian), birdscage evening primrose (Oenothera deltoides), Russian thistle (Salsola kali), Russian knapweed (Centaurea repens), and prickly pear cactus (Opuntia sp.). In addition, a riparian community dominated by tall greasewood, cottonwood (Populas sp.), willow (Salix sp.), and salt cedar (tamerix) can be found along the Willow Creek Canyon bottom

Little Canyon Unit (LCU) #16-36F

The proposed LCU #16-36F well pad is situated at a small box like area at the base of the talus slope of a small upland hill and south to north trending ridge (Figures 2 and 3). The small hill and ridge is adjacent immediately west of the proposed well pad. The hill and ridge is part of an upland bench system of hills, ridges, benches and drainages that drain west to Willow Creek. A small southeast to northwest trending ephemeral drainage wash can be found to the south of the ridge. The sediments on the well location are colluvial in nature. These colluvial deposits consist of shallow (≤ 5 cm), tan to light brown, poorly sorted, moderately compacted, sandy clay loam, mixed with angular pieces of sandstone, clay and shale on the ridge tops and flat areas (Figure 3). Exposed and eroding tan to light brown sandstone and shale bedrock dominates the well pad landscape. Vegetation consists of low sagebrush, saltbush, rabbitbrush, greasewood, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), barrel and prickly pear cactus. The proposed well location is 5360 feet (1634.14 m) AMSL.

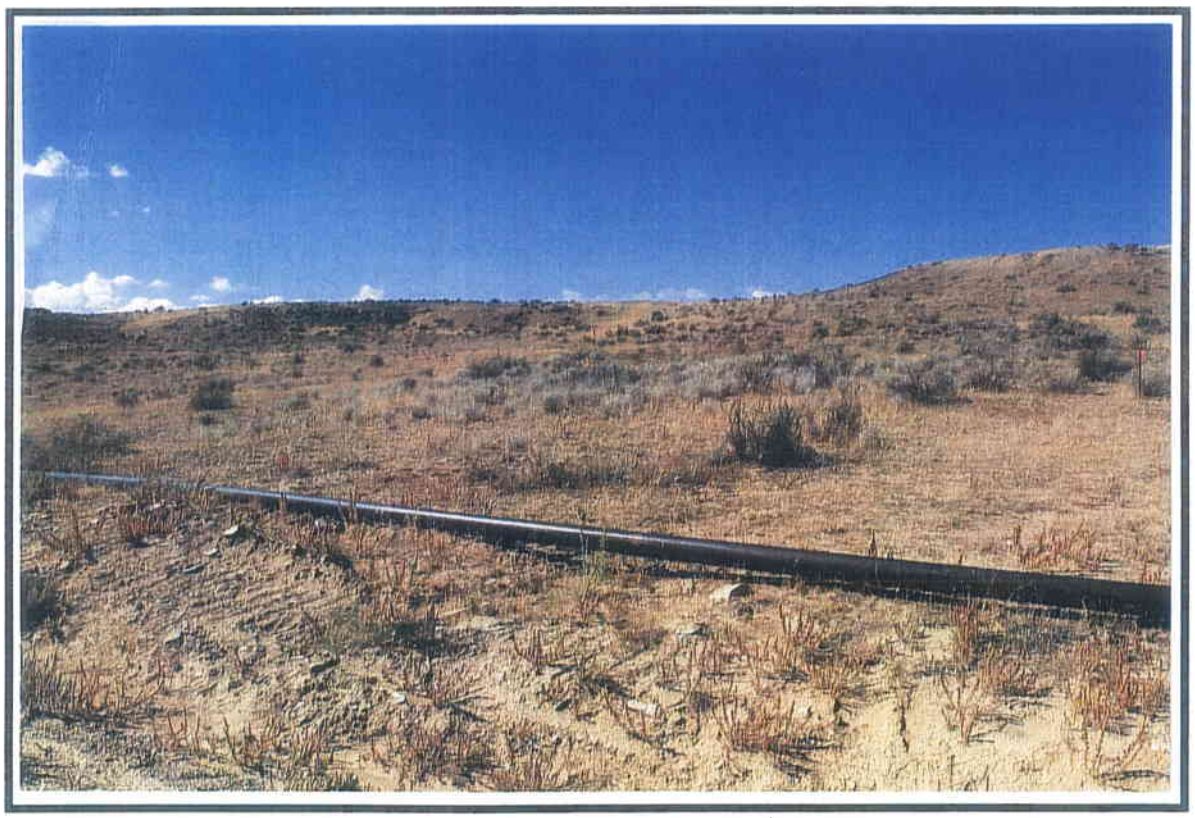


Figure 2. View to west at the proposed LCU #16-36F centerstake and well pad area.

From the existing Seep Ridge road and surface pipeline, the proposed access and pipeline parallel each other and trend 200 feet (60.9 m) southwest to the proposed LCU #16-36F well. The

access and pipeline cross a small open sagebrush flat to the proposed pipeline. Sediments along the pipeline consist of a shallow (5 to 10 cm), poorly sorted, loosely compacted, colluvial sandy clay loam. These colluvial deposits overlie sandstone, clay and shale bedrock. Vegetation along the access and pipeline is sparse and consists of low sagebrush, greasewood, rabbitbrush, saltbush, Russian thistle, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), and prickly pear cactus.

Figure 3. Closer view to west of the proposed Little Canyon Unit #16-36F well pad and the colluvial deposits on and surrounding the proposed LCU #16-36F well pad area.

Field Methods

A total of 10 acres was surveyed around the centerstake of the proposed LCU #16-36F well location to allow for relocation of the pad if necessary. The survey was accomplished by walking transects spaced no more than 15 meters apart. The proposed access and pipeline is the existing Seep Ridge road and surface pipeline that is located adjacent immediately east of the proposed well pad. Therefore, the proposed access and pipeline corridors are located within the 10 acre area surveyed around the proposed well centerstake. Thus, 0 linear acres was surveyed.

Geologic landforms (rockshelters, alcoves, ridge tops and saddles) and areas of subsurface exposure (ant hills, blowouts,

rodent holes and burrow, eroding slopes and cutbanks) were examined with special care in order to locate cultural resources (sites, isolates) and possibly help assess a site's sedimentary integrity and potential for the presence and/or absence of buried intact cultural deposits. All exposures of sandstone cliff faces, alcoves or rockshelters, and talus slopes were surveyed.

When cultural materials are discovered, a more thorough survey of the immediate vicinity is conducted in order to locate any associated artifacts and to determine the horizontal extent (surface area) of the site. If no other artifacts are located during the search then the initial artifact was recorded as an isolated find. At times, isolated formal tools (typical end scrapers, projectile points) were drawn and measured. The isolate was then described and its location plotted on a U.S.G.S. topographic map and UTM coordinates are recorded.

When sites are found an Intermountain Antiquities Computer System (IMACS) form was used to record the site. At all sites, selected topographic features, site boundaries, stone tools and cultural features (hearths, foundations, trash dumps and trails) are mapped. Sites were mapped with a Brunton compass, Trimble Geophysical 3 and/or Garmin E-Trex GPS units, and pacing off distances from a mapping station (datum, PVC with aluminum tag). All debitage is inventoried using standard recording techniques (Truesdale et al 1995:7) according to material type, basic flake type, and so on. Selected (mostly complete) stone tools and projectile points are drawn and measured. All features (rockart panel(s), hearths, foundations, trash dumps and trails) are measured and described, while selected features are either drawn or photographed.

Site location data is recorded by a Trimble GeoExplorer 3 Global Positioning System (GPS) and Garmin GPS III Plus and/or a E-Trex GPS. Site elevation and Universal Transverse Mercator (UTM) grid data, its Estimated Position Error (EPE) and Dilution of Precision (DOP) were recorded. Using the GPS data, the site location was then placed on a USGS 7.5' quadrangle map.

Results

A total of 10 (10 block, 0 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO Energy Corporation Little Canyon Unit (LCU) #16-36F well, and along its access and pipeline. One site (42UN5949) was recorded. The site is a historic/modern temporary ranching camp associated with a trash scatter. The site is considered to be non-significant and ineligible for nomination and inclusion to the National Register of Historic Places. No additional cultural resources (sites, isolates) were recorded on or around the proposed LCU #16-36F or along its access and pipeline.

A moderate scatter of modern trash (plastic bottles, sanitary

food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the Little Canyon Unit area.

Site: 42UN5949
Location: NE/NW/SE ¼ Section 36, T10S R20E (Figure 1)
UTM Coordinate: Zone 12, NAD 83, 06/19/131mE 44/17/352mN ±5m
06/19/200mE 44/17/333mN
06/19/233mE 44/17/313mN
06/19/215mE 44/17/273mN
06/19/134mE 44/17/322mN

Setting: Site 42UN5949 is situated on the top of a knoll and along the knolls eastern talus slope and a small open sagebrush area to the east. Vegetation is sparse and is characteristic of a sagebrush/short grass community. Vegetation consists of sagebrush, saltbush, greasewood, bunchgrasses (wheatgrass, Indian rice-grass), buckwheat, cheat grass, Russian thistle and prickly pear cactus. Sediments are shallow (<5 to 10 cm) and consist of poorly sorted, loosely compacted, sandy clay loam mixed with small to angular pieces of sandstone with smaller pieces of clay and shale. A small relatively thick layer of sandstone is exposed along the eastern side of the knoll. The elevation ranges between 5400 and 5360 feet (1646.34-1634.14 m) AMSL.

Description: Site 42UN5949 is a historic/modern temporary campsite associated with a moderate scatter of cans. The site measures 100 m (E-W) by 90 m (N-S), 9000 sq m. The site contains a fire pit, a stone bench, a wood (sagebrush) scatter, a wood board scatter and a scatter of clear, brown, and purple glass, over two hundred (n=200+) sanitary food cans, over fifty (n=50+) solder dot cans, over fifty (n=50+) tobacco cans, six (n=6) coffee cans, two (n=2) ½ gallon lard buckets, two cartridge shells and miscellaneous wire.

The fire pit, stone bench are situated on the top of a small hill (knoll) along the western portion of the site. The fire pit measures 123 cm (N-S) by 143 cm (E-W). The fire pit consists of over twenty pieces of fire reddened sandstone blocks. The fire pit contains no charcoal or charcoal stained sediments. The stone bench consists of four large angular sandstone blocks and a wood board that is positioned along the northern edge of the hill (knoll).

Glass bottle on the site consist of clear, brown and purple glass fragment. The clear glass bottle are represented by a clear glass round bottle base that exhibits a Owens Illinois Glass Co., Toledo, Ohio bottle makers mark that dates post 1968 (Toulouse 1971:403). This clear bottle is an olive bottle. A second clear round bottle base exhibits a GC makers mark that represents the Glass Containers Corp., Fullerton, Ca. and dates to post 1954 (Toulouse 1971:220). A third clear oval bottle base represents a

(Toulouse 1971:220). A third clear oval bottle base represents a KARO syrup bottle that exhibits a Owens Illinois Glass Co, Toledo, Ohio that dates to 1966 (Toulouse 1971:403).

The purple glass is represented by 10 unidentifiable bottle fragments.

Over two hundred (n=200+) sanitary food cans were inventoried at 42UN5949. In 1898 the AMs "solderless" cans were tested by the Cobb Preserving Co. The canned Bartlet pears and were quite successful with the results. The "solderless can" has also been called the "open top can", but is best known as the "sanitary can". The sanitary can production dominated can production in the West by 1911, however, did not take off until thirty years before they gained complete control of the market (Rock 1987:22). The cans at 42UN5949 date between circa 1950 and 1970's.

Over fifty (n=50+) solder dot cans were inventoried at 42UN5949. The solder dot can, "vent hole" or matchstick filler hole" can were introduced around the turn of the century. These cans are exclusively made for evaporated milk. The evaporated milk industry was by far the most frequent user of this type of can (Rock 1987:21).

Two cartridges were inventoried at the site. The first cartridge exhibits a W.R.A. Co. 303. Sav. Head stamp which represents Winchester Repeating Arms Company and a .303 Savage caliber. The .303 Savage caliber was originally developed as a potential military cartridge in 1895, however its was later introduced commercially as one of several calibers for the popular Savage Model 1899 (Barnes 1965:44). Savage discontinued the cartridge when production was resumed after World War II. In England it is known as the .301 Savage. No rifles are chambered for this round at the present time. The second cartridge exhibits a W.R.A. Co. W.C.F. .25-35 head stamp. The head stamp represents the Winchester Repeating Arms Co. Winchester Centerfire .25-35 caliber cartridge and dates between 1895 and 1945 (Berge 1980:230). The Winchester .25-35 was developed by Winchester and introduced in 1895 for the Model 94 lever action rifle (Barnes 1965:21). Along with the .30-30, it was one of the first small bore, smokeless powder, sporting cartridges developed in te united States. Winchester, Marlin and Savage all chambered repeating lever action rifles for this cartridge. Quite a few single shot rifles also chambered the .25-35 and in Europe it was used in combination type arms. The European designation is the 6.5x52Rmm (Barnes 1965:21). No American rifles have been made for the .25-35 since the end of World War II.

Sediments are shallow (<5 to 10 cm) and consist of tan to light brown, poorly sorted, loosely compacted sandy clay loam mixed with angular pieces of sandstone, clay and shale. The possibility of buried and intact cultural material at the site is low. The site also contain several modern brown beer bottles

(Budweiser, Killians), and soda pop and beer cans. The site is subjected to erosion, deflation and possible vandalism (collection). The site is considered to be in poor condition and in the latter stages of deflation.

National Register Status: Site 42UN5949 is a historic/modern temporary campsite associated with a moderate scatter of cans. The site appears to represent a temporary ranching camp that dates between 1954 and the 1970's.

Sediments are shallow (<5 to 10 cm) and consist of tan to light brown, poorly sorted, loosely compacted sandy clay loam mixed with angular pieces of sandstone, clay and shale. The possibility of buried and intact cultural material at the site is low. The site is subjected to erosion, deflation and possible vandalism (collection). The site is considered to be in poor condition and in the latter stages of deflation.

The site is not associated with any event(s) that has made a significant contribution to the broad pattern(s) of our history, not is it associated with the life or persons significant in our past; nor does it contain any features with distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that posses high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction. In addition, the site can not yield, or may likely yield any additional information important in prehistory or history. Thus 42UN5949 is considered to be <u>not</u> <u>eligible</u> for nomination and/or inclusion to the National Register of Historic Places (NRHP).

<u>Recommendations</u>

A total of 10 (10 block, 0 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO Energy Corporation Little Canyon Unit #16-36F well, and along its access and pipeline. One site (42UN5949) was recorded. The site is a historic/modern temporary ranching camp associated with a trash scatter. The site is considered to be non-significant and ineligible for nomination and inclusion to the National Register of Historic Places. No additional cultural resources (sites, isolates) were recorded on or around the proposed LCU #16-36F or along its access and pipeline.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the Little Canyon Unit area.

The site will be impacted by construction of the LCU #16-36F well, its access and pipeline. However, the site does not contain any attributes that make it significant or eligible to the NRHP.

Sediments on and surrounding the proposed well pad, and along its access and pipeline are shallow. Therefore, the possibility of buried and/or intact cultural materials on the proposed well pad or along its access and pipeline is low. Therefore, no additional archaeological work is necessary and clearance is recommended for the construction of the Little Canyon Unit #16-36F well pad, its access, and pipeline.

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1995 Cultural Resource Inventory of the Proposed Ouray Gravel Pit Location, Uintah-Ouray Ute Reservation, Uintah County, Utah. Report prepared for U & W Construction, Ft. Duchesne, Utah by AIA, Laramie, Wyoming.

PALEONTOLOGY EVALUATION SHEET

PROJECT: XTO Energy, Inc. – LCU #16-36F

LOCATION: 15 miles south of Ouray, Uintah County, Utah. Section 36, 815' FSL 471' FEL, T10S, R20E, S.L.B.&M.

OWNERSHIP: PRIV[ ] STATE[X] BLM[ ] USFS[ ] NPS[ ] IND[ ] MIL[ ] OTHER[ ]

DATE: October 2, 2007

GEOLOGY/TOPOGRAPHY: Rock outcrops in this area are the lower part of Uinta Formation, Eocene age. There is a short access road and pipeline to the well location which sits just west of the Seep Ridge Road on an east slope east of a round top hill. Area is of moderate to low relief. There are rock exposures next to the southeast corner and the pit will go into the hill with Uinta Formation. Surface is mostly slope wash and other alluvium.

PALEONTOLOGY SURVEY: YES [X] NO Survey [ ] PARTIAL Survey [ ]
Pedestrian Survey of Uinta Formation rock exposures at the well pad/pit and along the access road and pipeline.

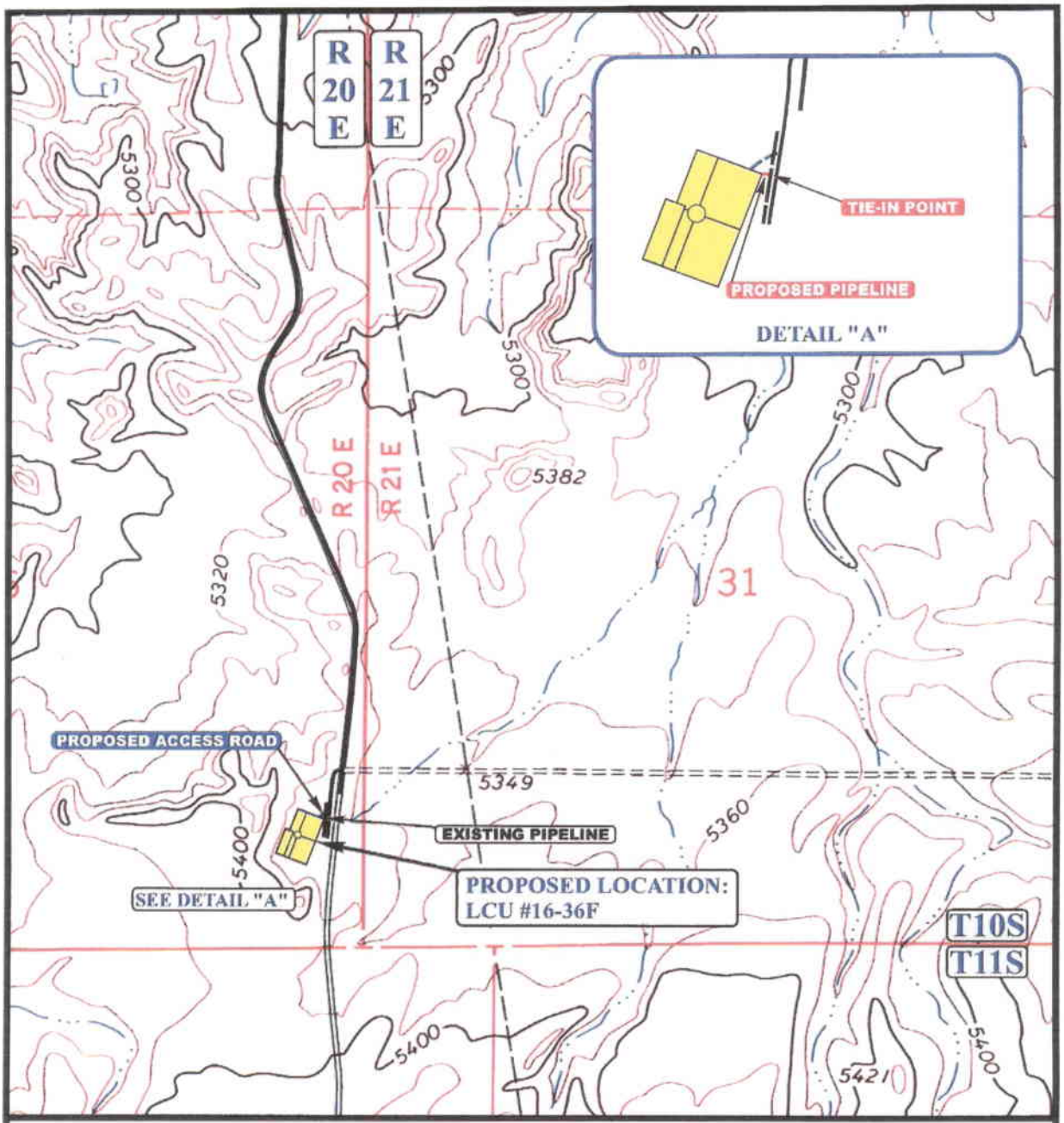
SURVEY RESULTS: Invertebrate [ ] Plant [ ] Vertebrate [ ] Trace [ ] No Fossils Found [X]

PALEONTOLOGY SENSITIVITY: HIGH [ ] MEDIUM [x] LOW [x] (PROJECT SPECIFIC)

MITGATION RECOMMENDATIONS: NONE [X] OTHER [ ] (SEE BELOW)

There is always some potential for discovery of significant paleontological resources in the Uinta Formation. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, etc.) are encountered during construction, work should stop in that area and a paleontologist should be contacted to evaluate the material discovered.

PALEONTOLOGIST: Alden H. Hamblin
A.H. Hamblin Paleontological Consulting, 3793 N. Minersville Highway, Cedar City, Utah 84720 (435) 867-8355
Utah State Paleontological Permit # 07-355, BLM paleontological Resources Permit # UT-S-05-02,
Utah Professional Geologist License – 5223011-2250.



APPROXIMATE TOTAL PIPELINE DISTANCE = 65' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.C.	REVISED: 00-00-00		

XTO ENERGY, INC.
LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.

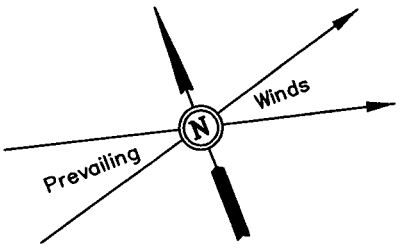
PROCEED IN A SOUTHERLY THEN SOUTHEASTERLY DIRECTION FROM OURAY, UTAH APPROXIMATELY 9.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 6.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 300' TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 130' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM OURAY, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 15.3 MILES.

XTO ENERGY, INC.

LOCATION LAYOUT FOR

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL



Proposed Access Road

SCALE: 1" = 50'
DATE: 09-18-07
Drawn By: S.L.

Approx. Top of Cut Slope

Approx. Toe of Fill Slope

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

C-3.4' El. 72.6'
T.S.
F-0.3' El. 68.9'
F-4.6' El. 64.6'
Sta. 3+00

DATA

65'
155'
175'

Pit Topsoil

CATWALK

PIPE RACKS

FLARE PIT
El. 75.0'
C-5.8'
El. 72.8'
C-3.6'
C-0.5'
El. 69.7'

Total Pit Capacity
W/2' of Freeboard
= 9,920 Bbls. ±
Total Pit Volume
= 2,810 Cu. Yds.

27'
9'
DOG HOUSE
RIG
135'
Sta. 1+80
F-3.0'
El. 66.2'

60'
38'
El. 77.1'
C-17.9'
(btm. pit)
El. 72.7'
C-3.5'
WATER
TRAILER

Slope = 1-1/2:1
PUMP
MUD SHED
MUD TANKS
TOILET
HOPPER
FUEL
180'
POWER
TOOLS
FUEL

Reserve Pit Backfill & Spoils Stockpile

10' WIDE BENCH
189'
RESERVE PITS
(10' Deep)

Sta. 0+50

TRASH
STORAGE TANK

Sta. 0+00

El. 77.6'
C-18.4'
(btm. pit)
10' WIDE BENCH
C-7.0'
El. 76.2'
C-5.9'
El. 75.1'
Topsoil Stockpile
C-3.4'
El. 72.6'

Elev. Ungraded Ground at Location Stake = 5369.7'
Elev. Graded Ground at Location Stake = 5369.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

XTO ENERGY, INC.

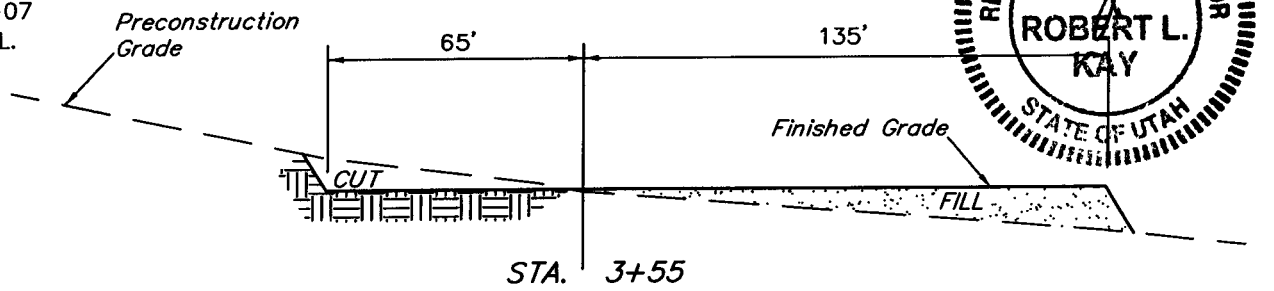
TYPICAL CROSS SECTIONS FOR

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

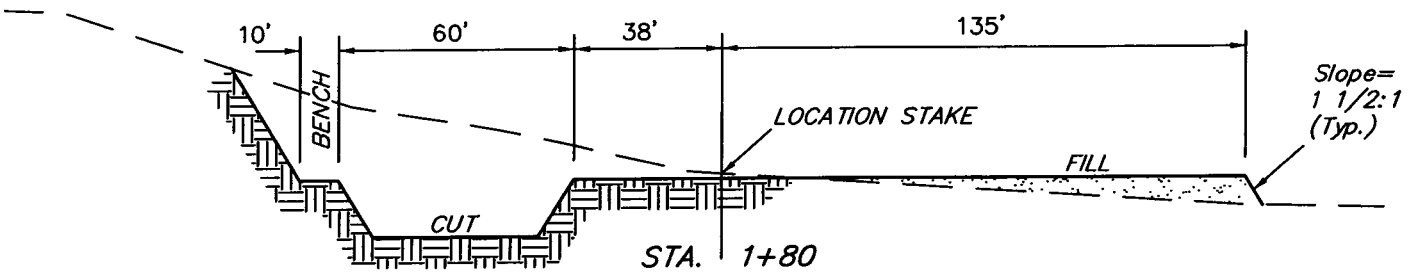
1" = 20'
X-Section Scale
1" = 50'

DATE: 09-18-07
Drawn By: S.L.

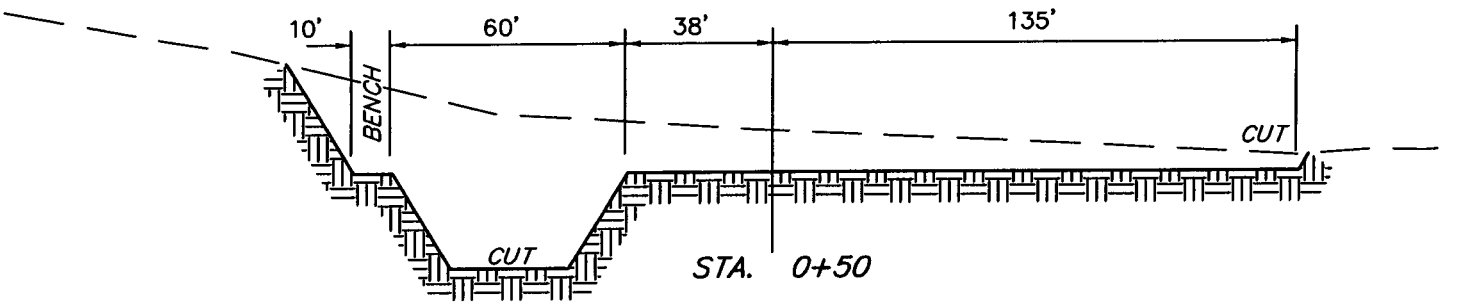
REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



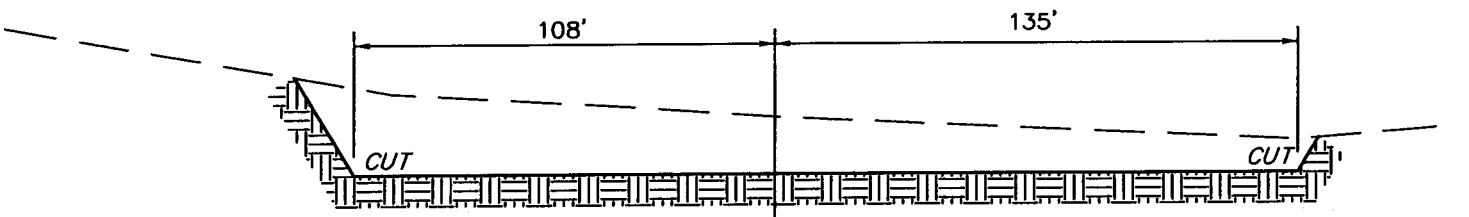
STA. 3+55



STA. 1+80



STA. 0+50



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* *NOTE:*
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping	=	*1,740* Cu. Yds.
Remaining Location	=	*10,310* Cu. Yds.
TOTAL CUT	=	*12,050* CU.YDS.
FILL	=	*2,780* CU.YDS.

EXCESS MATERIAL	=	*9,270* Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	*3,150* Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	*6,120* Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

XTO ENERGY, INC.

LCU #16-36F

LOCATED IN UINTAH COUNTY, UTAH
SECTION 36, T10S, R20E, S.L.B.&M.

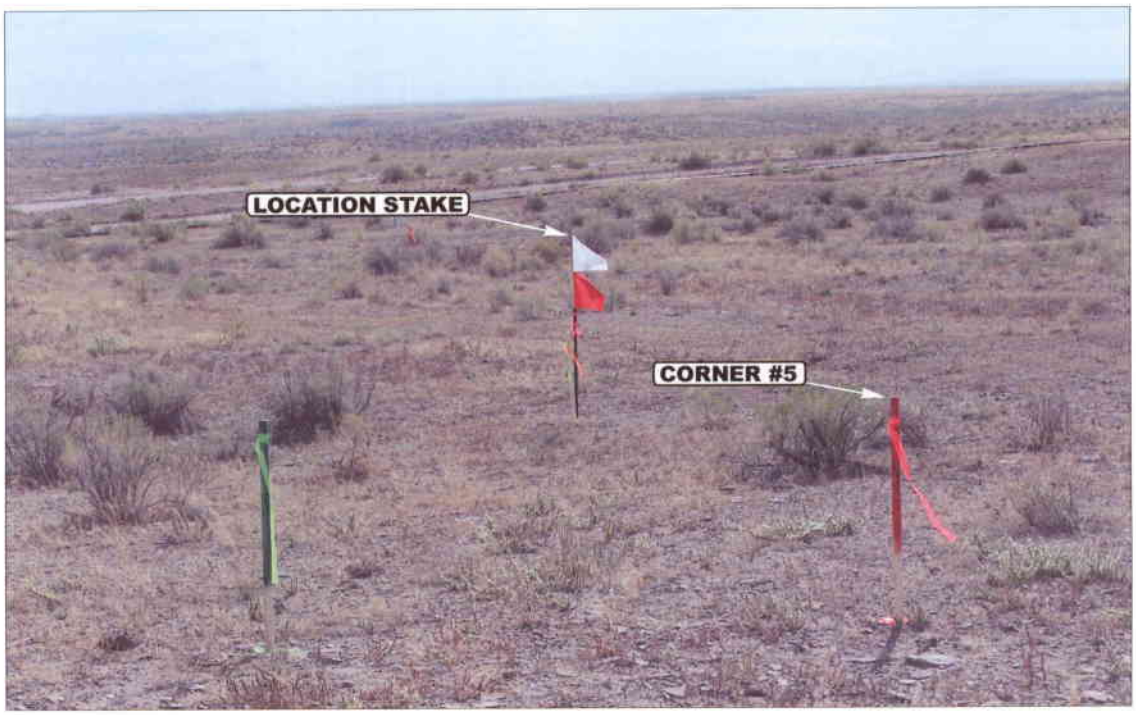


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: SOUTHEASTERLY**

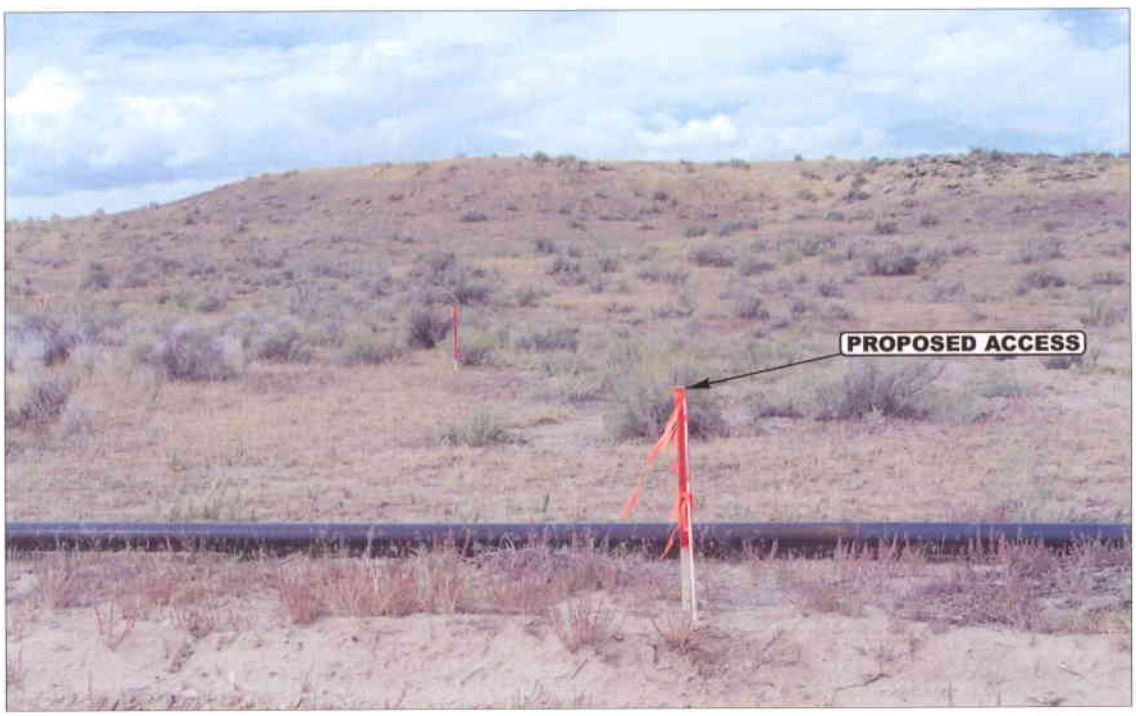
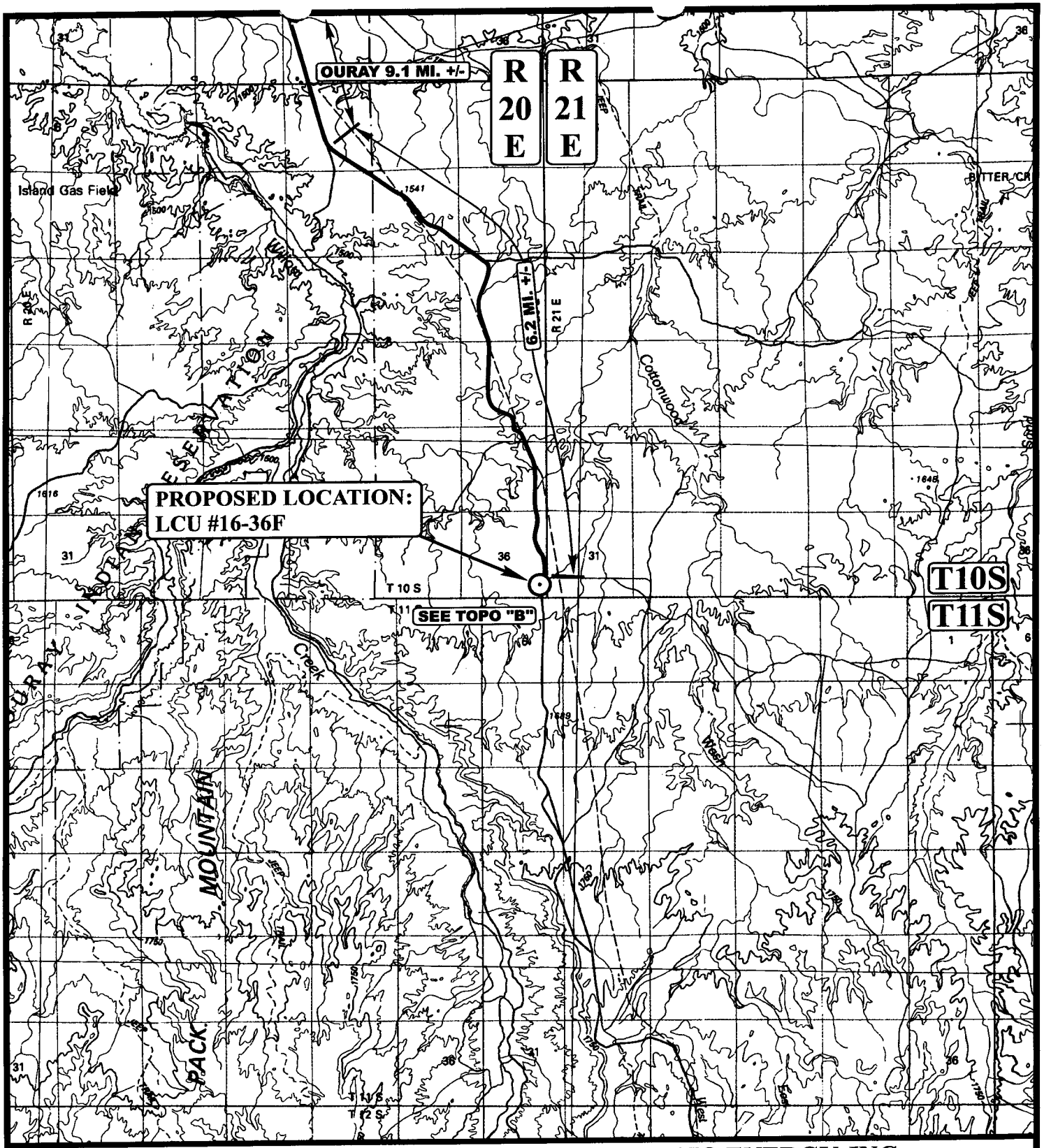


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: WESTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	09 MONTH	17 DAY	07 YEAR	PHOTO
TAKEN BY: B.B.	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

⊙ PROPOSED LOCATION

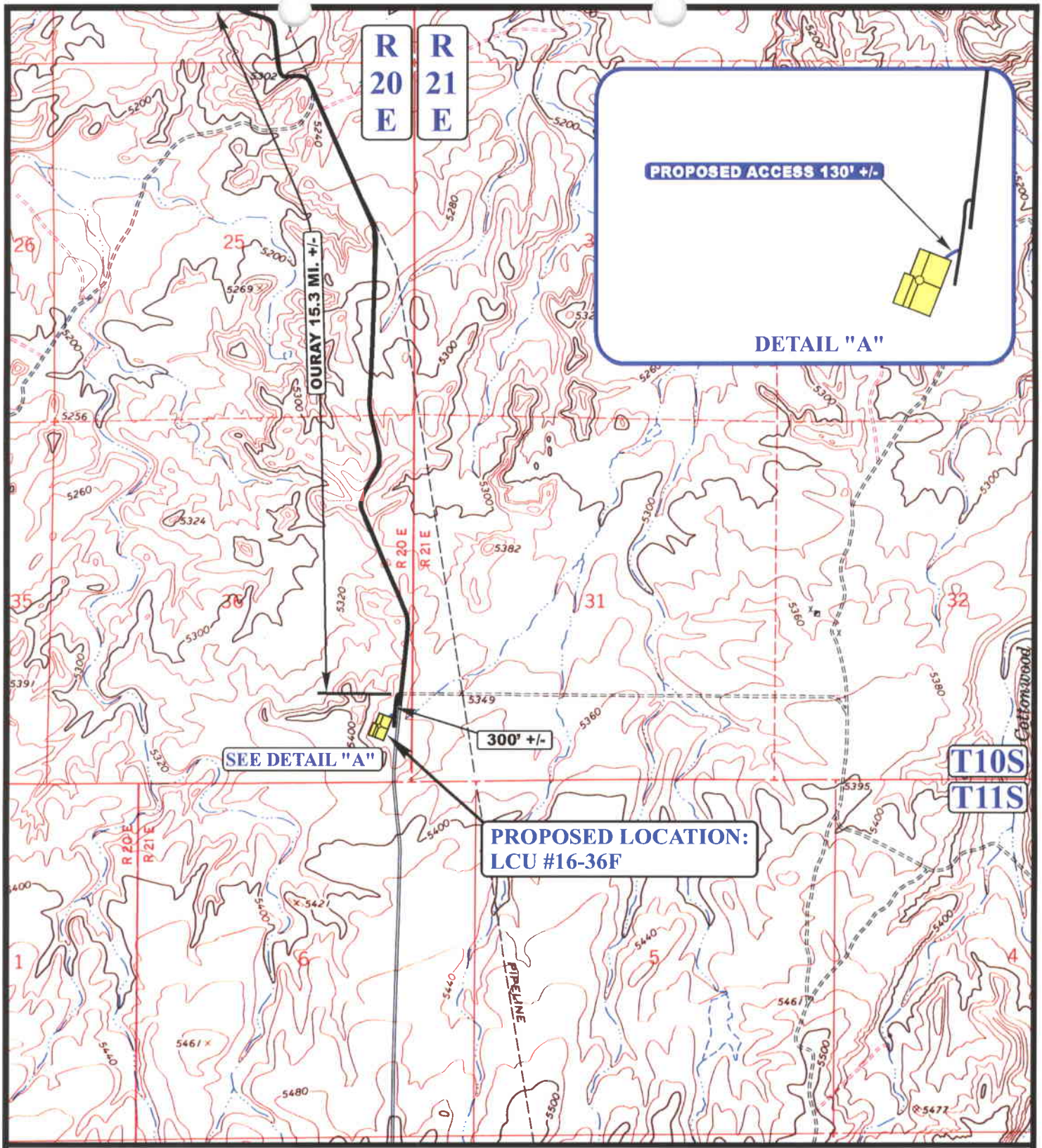
N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

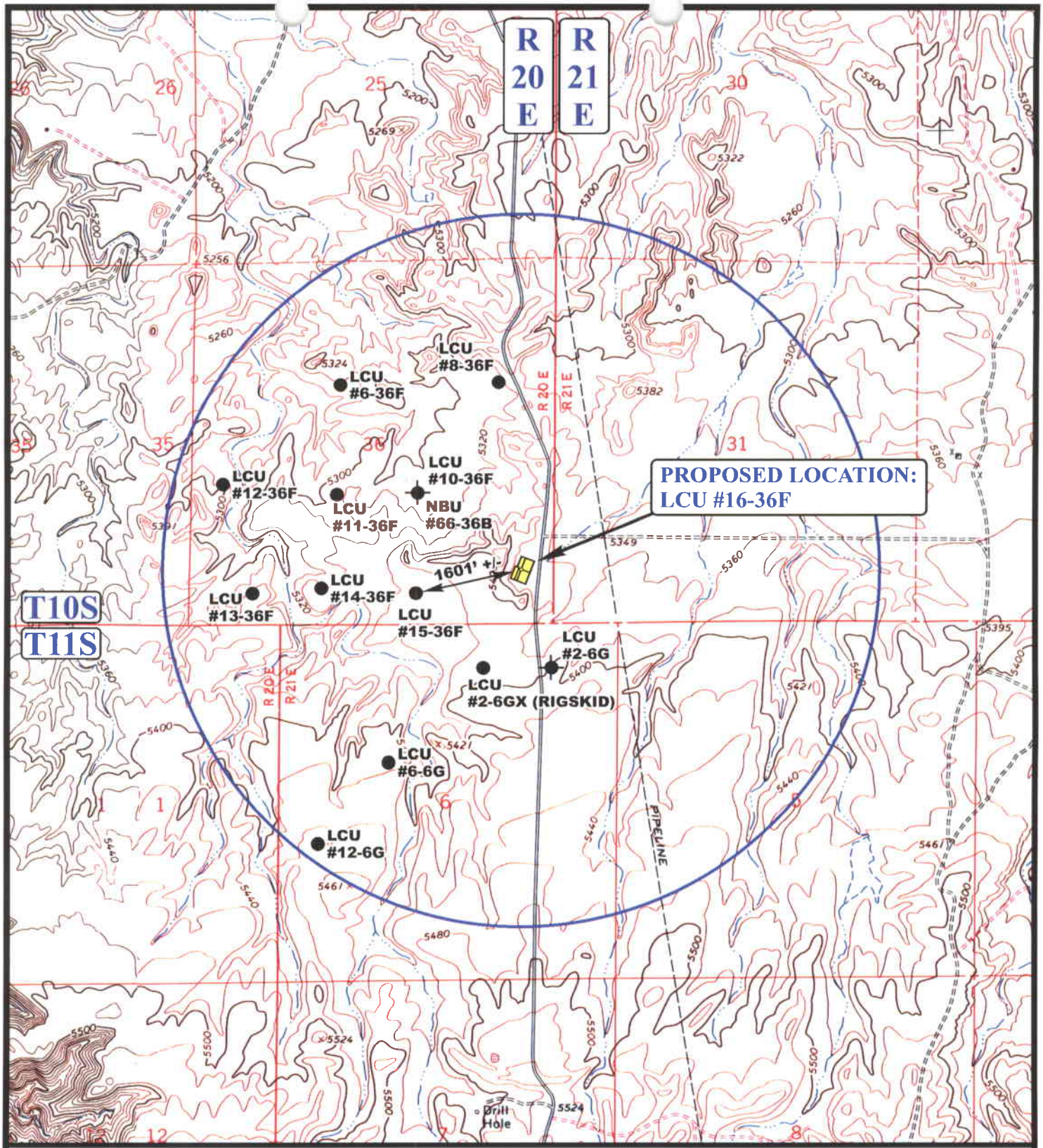
N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- WATER WELLS
- PRODUCING WELLS
- ABANDONED WELLS
- SHUT IN WELLS
- TEMPORARILY ABANDONED

N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
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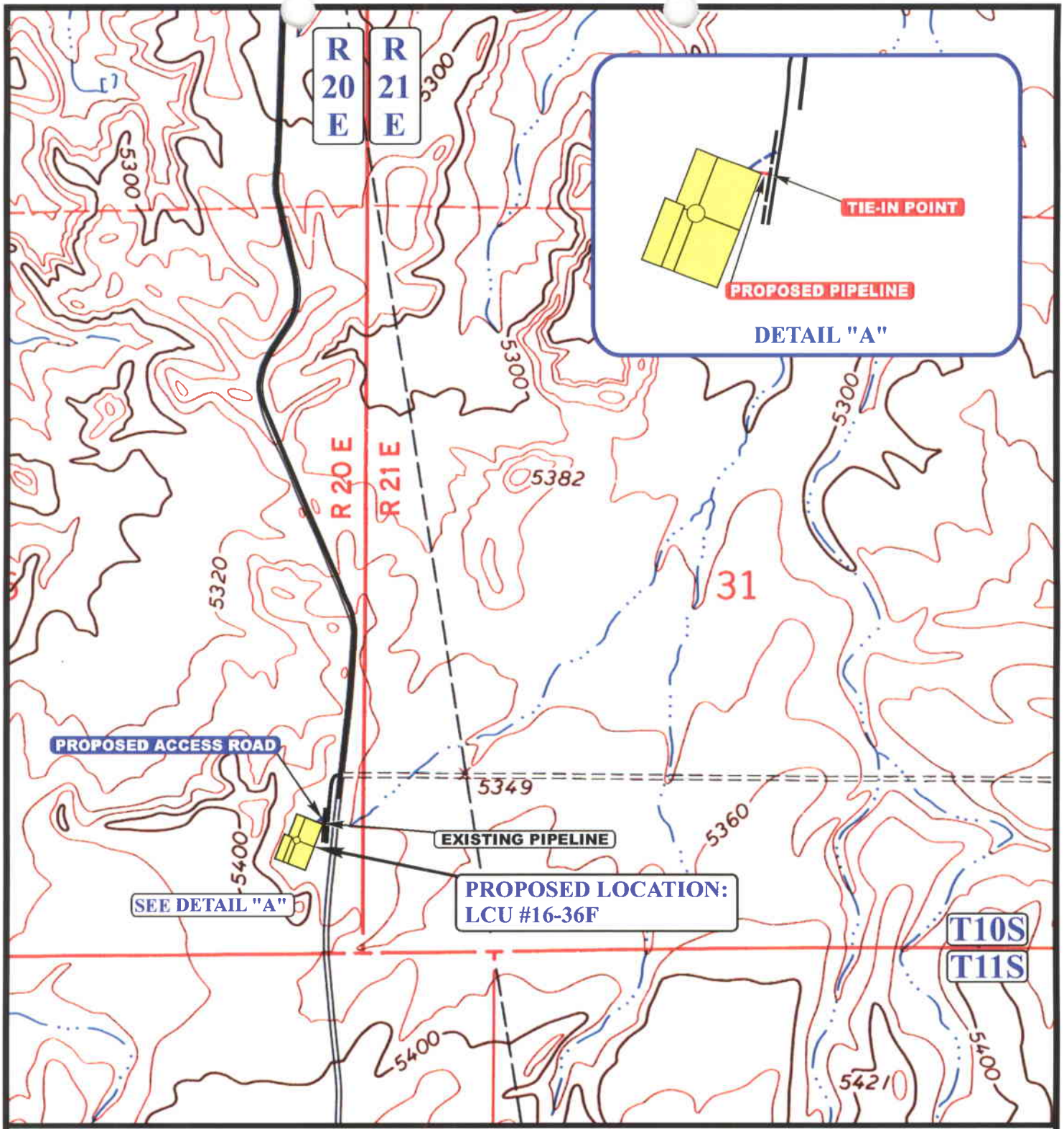
TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR
SCALE: 1" = 2000'	DRAWN BY: C.C.	REVISED: 00-00-00	C TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 65' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

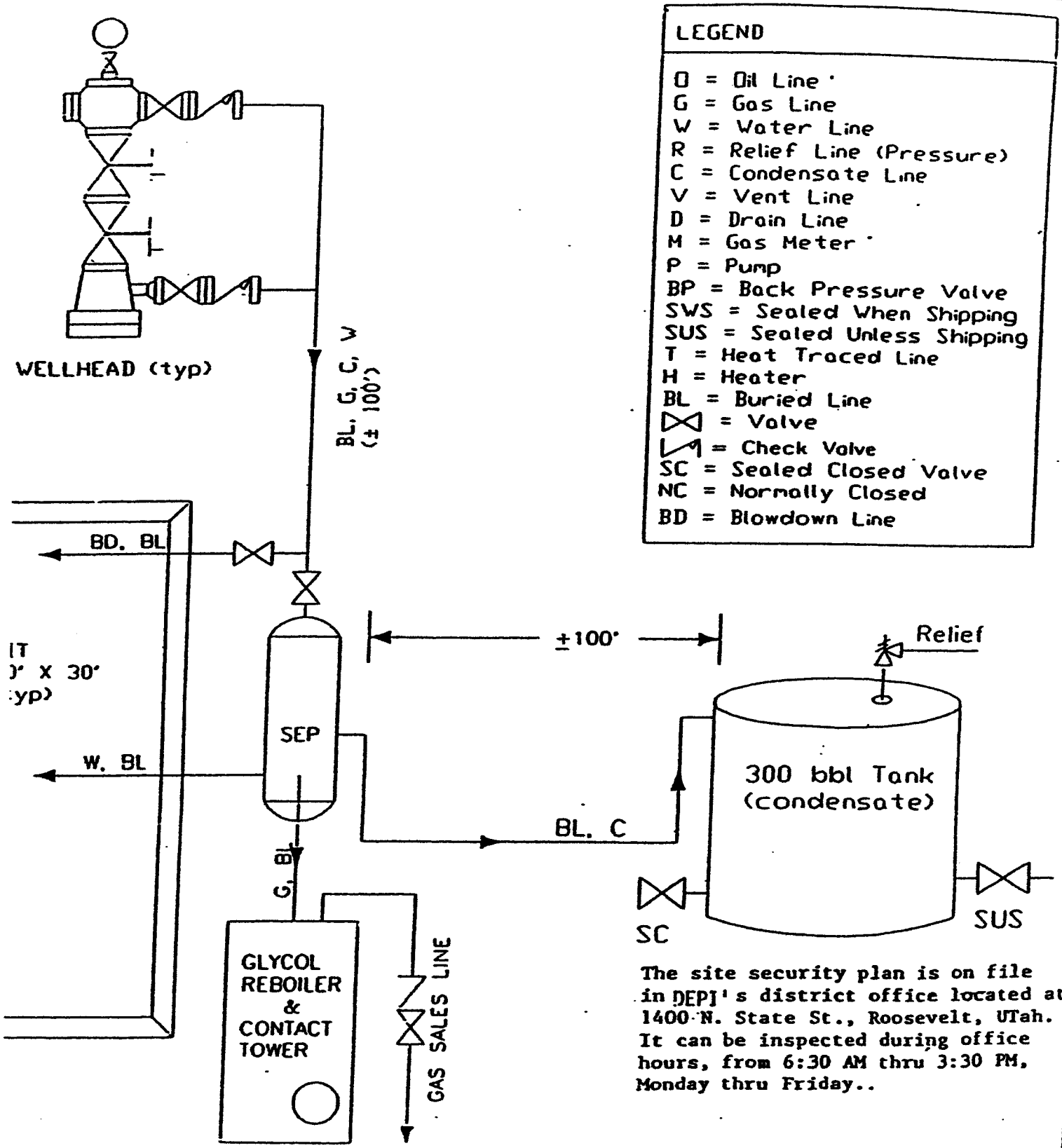
N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.C.	REVISED: 00-00-00		



The site security plan is on file in DEPT's district office located at 1400 N. State St., Roosevelt, UTah. It can be inspected during office hours, from 6:30 AM thru 3:30 PM, Monday thru Friday..

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/09/2007

API NO. ASSIGNED: 43-047-39784

WELL NAME: LCU 16-36F

OPERATOR: XTO ENERGY INC (N2615)

PHONE NUMBER: 435-722-4521

CONTACT: DON HAMILTON

PROPOSED LOCATION:

SESE 36 100S 200E

SURFACE: 0815 FSL 0471 FEL

BOTTOM: 0815 FSL 0471 FEL

COUNTY: UINTAH

LATITUDE: 39.89892 LONGITUDE: -109.6050

UTM SURF EASTINGS: 619255 NORTHINGS: 4417259

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	12/7/07
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-47391

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 104312762)

N Potash (Y/N)

Y Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-10447)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: LITTLE CANYON

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

✓ Drilling Unit

Board Cause No: 259-01

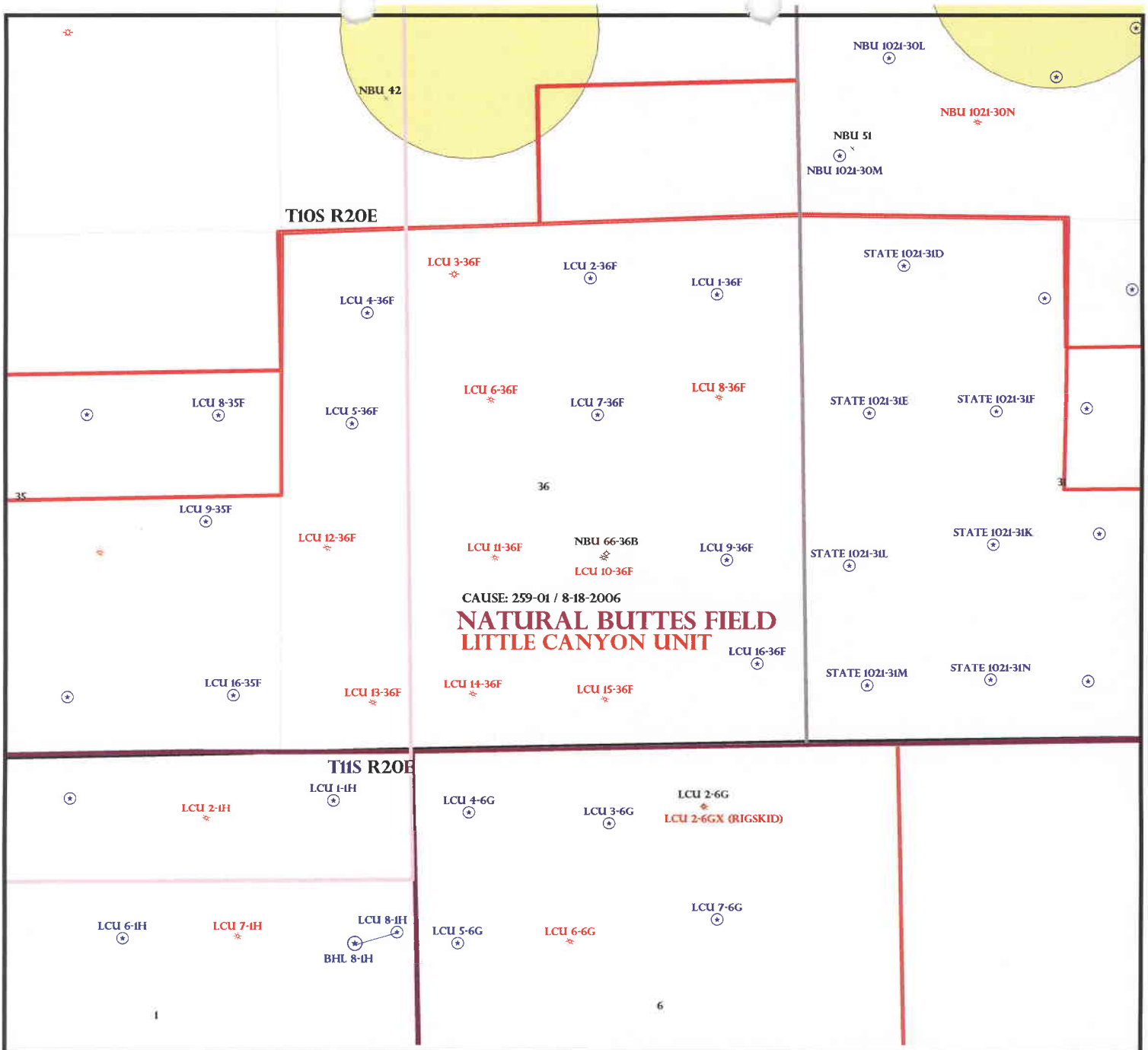
Eff Date: 8-18-2006

Siting: 460' fr u bdrys & uncomm. Tracts

___ R649-3-11. Directional Drill

COMMENTS: Needs Presite (11-27-07)

STIPULATIONS: 1- STATEMENT OF BASIS
2- OIL SHALE
3- Surface Csg Cmt Stip



OPERATOR: XTO ENERGY INC (N2615)

SEC: 36 T.10S R. 20E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 259-01 / 8-18-2006

UTAH DNR
OIL, GAS & MINING

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 16-NOVEMBER-2007

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
600	43-047-39784-00-00		GW	S	No

Operator XTO ENERGY INC **Surface Owner-APD**
Well Name LCU 16-36F **Unit**
Field UNDESIGNATED **Type of Work**
Location SESE 36 10S 20E S 815 FSL 471 FEL GPS Coord (UTM) 619255E 4417259N

Geologic Statement of Basis

XTO proposes to set 2,200 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 4,400 feet. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the proposed location. This well is over a mile from the proposed location. The well is owned by the BLM it is listed as used for stock watering. The surface formation at this location is he Uinta Formation. The well depth is listed as 2,500 feet. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The proposed surface casing and cement should adequately protect any near surface aquifers. The production string cement should be brought up above the base of the moderately saline water to prevent it from mixing with fresher waters up hole.

Brad Hill	11/29/2007
APD Evaluator	**Date / Time**

Surface Statement of Basis

The general area is approximately 14 miles southwest of Ouray, Utah and in an oil field Unit known as Little Canyon. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle to deep draws running westerly a distance of about 3 miles into Willow Creek. The draws are occasionally rimed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Willow Creek contains a perennial stream. No other seeps, springs or streams are known to exist in the area. An occasional pond collecting runoff for livestock and antelope occurs.

The LCU 16-36F proposed gas well is 13.6 miles southeast of Ouray and is accessed by the Seep Ridge Road. A new road 300 feet in length will be constructed to the west from this road. This road will cross an existing 8-inch pipeline owned by XTO, which will be buried at the crossing.

The location is planned on a flat surrounded by higher hills except to the east toward the road. Light side slope drainage consisting mostly of overland flow occurs from the slopes to the south. This will be cutoff by the reserve pit spoils while the pit is open. A diversion ditch to the west around the location may be desirable when the pit is closed. .

Both the surface and minerals are owned by SITLA. Ed Bonner and Jim Davis of SITLA were invited to the pre-site evaluation. Neither attended. This investigation did not reveal any significant issues or situations, which should prohibit access to or drilling and operating the well at this site.

Ben Williams representing the UDWR stated the area is classified as yearlong crucial habitat for antelope but water not forage is the factor limiting the growth of the herd. He did not recommend any restrictions for this species. No other wildlife species are expected to be significantly affected. He furnished Ken Secriest of XTO, a copy of his evaluation and a recommended seed mix to be used when the site is re-vegetated.

Floyd Bartlett	11/27/2007
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainageabove the location may need to be diverted around the location when the reserve pit is closed.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator XTO ENERGY INC
Well Name LCU 16-36F
API Number 43-047-39784-0 **APD No** 600 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 SESE **Sec** 36 **Tw** 10S **Rng** 20E 815 FSL 471 FEL
GPS Coord (UTM) 618758 4418061 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Ken Secrist, Jody Mecham, Zander Mcyentire (XTO Energy, INC.), Ben Williams (UDWR), Brandon Bowthorpe (U.E.L.S.), David Allen (LaRose Construction), Randy Jackson (Jackson Construction).

Regional/Local Setting & Topography

The general area is approximately 14 miles southwest of Ouray, Utah and in an oil field Unit known as Little Canyon. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle to deep draws running westerly a distance of about 3 miles into Willow Creek. The draws are occasionally rimed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Willow Creek contains a perennial stream. No other seeps, springs or streams are known to exist in the area. An occasional pond collecting runoff for livestock and antelope occurs.

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Both the surface and minerals are owned by SITLA. This investigation did not reveal any significant issues or situations, which should prohibit access to or drilling and operating the well at this site.

Surface Use Plan

Current Surface Use
Recreational
Wildlfe Habitat

New Road Miles	Well Pad		Src Const Material	Surface Formation
0.01	**Width** 243	**Length** 355	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Sparsely vegetated with greasewood cheat grass, mustard weed.

Antelope, coyotes, rabbits and miscellaneous small mammals and birds.

Soil Type and Characteristics

Medium deep sandy clay loam with some small surface rock.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?**

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
	Final Score	25 1 **Sensitivity Level**

Characteristics / Requirements

A 60' x 189' x 10' deep reserve pit is planned in an area of cut on the southwest side of the location. It will be lined with a 16-mil liner with an appropriate thickness of felt sub liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

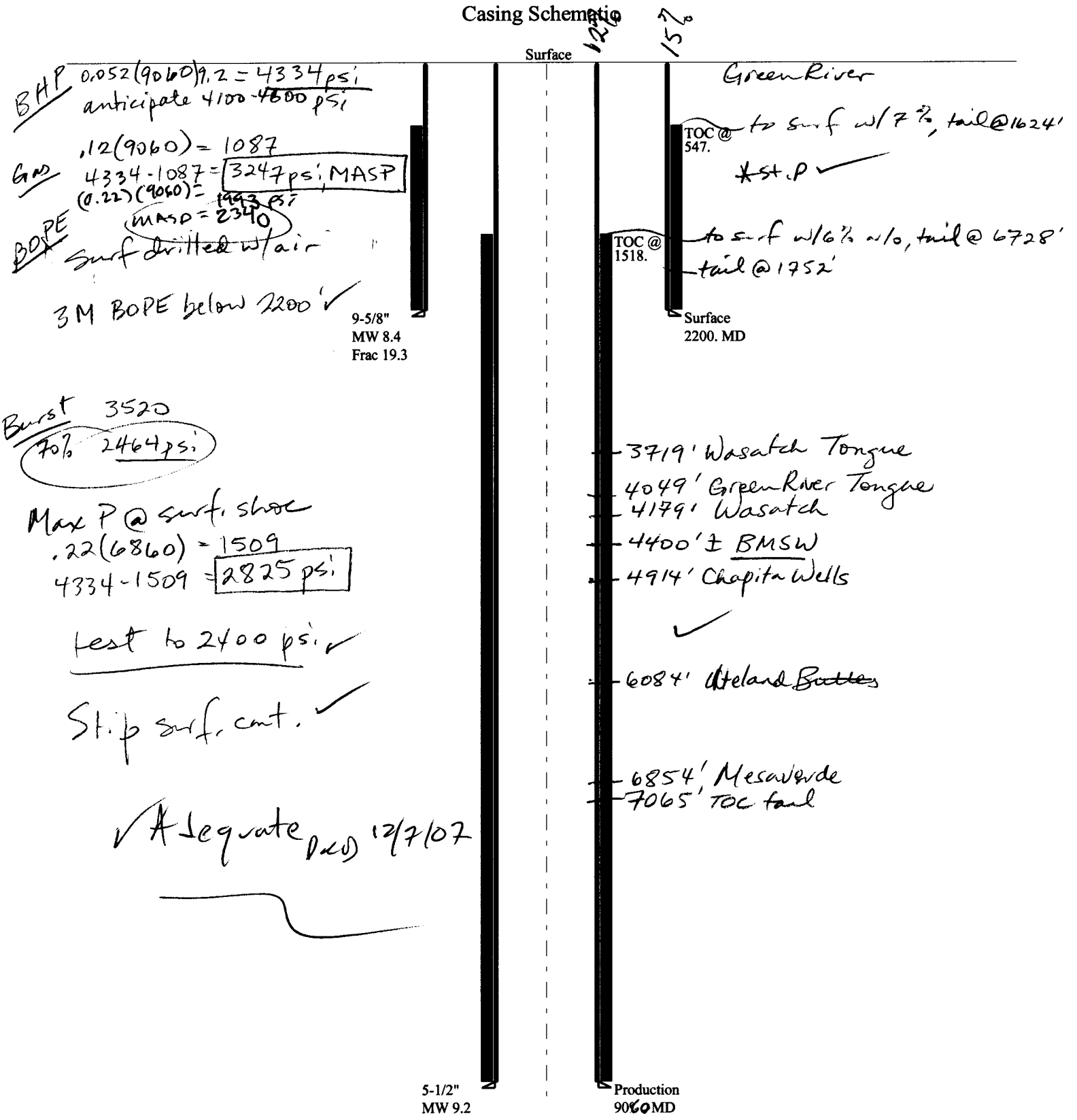
Appears to be an old sheep camp or other habitation site on the proposed location consisting of boards and cans. ATV's were used to access the site.

Floyd Bartlett — **Evaluator**

11/27/2007 — **Date / Time**

2007-12 XTO LCU 16-36F

Casing Schematic



Well name:	**2007-12 XTO LCU 16-36F**
Operator:	**XTO Energy, Inc.**
String type:	Surface
Project ID:	43-047-39784
Location:	Uintah Co.

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,936 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,200 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.50 (B)

Tension is based on air weight.
Neutral point: 1,927 ft

Environment:

H2S considered?	No
Surface temperature:	65 °F
Bottom hole temperature:	96 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	185 ft
Cement top:	547 ft

Non-directional string.

Re subsequent strings:

Next setting depth:	9,060 ft
Next mud weight:	9.200 ppg
Next setting BHP:	4,330 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	2,200 ft
Injection pressure:	2,200 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	2200	9.625	36.00	J-55	ST&C	2200	2200	8.796	954.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	960	2020	2.104	2200	3520	1.60	79	394	4.97 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Minerals

Phone: 810-538-5357

Date: December 5,2007
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**2007-12 XTO LCU 16-36F**		
Operator:	**XTO Energy, Inc.**		
String type:	Production	Project ID:	43-047-39784
Location:	Uintah Co.		

Design parameters:

Collapse

Mud weight: 9.200 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,337 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,330 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 7,796 ft

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 192 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 368 ft

Cement top: 1,488 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	9060	5.5	17.00	N-80	LT&C	9060	9060	4.767	1182.6

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4330	6290	1.453	4330	7740	1.79	154	348	2.26 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Minerals

Phone: 810-538-5357

Date: December 6,2007
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 9060 ft, a mud weight of 9.2 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

November 16, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Little Canyon Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Little Canyon Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-39788	LCU 07-36F	Sec 36 T10S R20E 1991 FNL 2059 FEL
43-047-39780	LCU 01-36F	Sec 36 T10S R20E 0782 FNL 0823 FEL
43-047-39781	LCU 02-36F	Sec 36 T10S R20E 0577 FNL 2112 FEL
43-047-39782	LCU 04-36F	Sec 36 T10S R20E 0860 FNL 0889 FWL
43-047-39783	LCU 09-36F	Sec 36 T10S R20E 1879 FSL 0766 FEL
43-047-39784	LCU 16-36F	Sec 36 T10S R20E 0815 FSL 0471 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Little Canyon Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:11-16-07

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

December 17, 2007

XTO Energy, Inc.
P O Box 1360
Roosevelt, UT 84066

Re: Little Canyon Unit 16-36F Well, 815' FSL, 471' FEL, SE SE, Sec. 36, T. 10 South, R. 20 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39784.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office
SITLA

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Operator: XTO Energy, Inc.

Well Name & Number Little Canyon Unit 16-36F

API Number: 43-047-39784

Lease: ML-47391

Location: SE SE **Sec.** 36 **T.** 10 South **R.** 20 East

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

   - 24 hours prior to cementing or testing casing – contact Dan Jarvis
   - 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
   - 24 hours prior to spudding the well – contact Carol Daniels
   - Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
   - Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

   The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

   - Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
   - Any changes to the approved drilling plan – contact Dustin Doucet

   The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

   - Dan Jarvis at: (801) 538-5338 office (801) 942-0873 home
   - Carol Daniels at: (801) 538-5284 office
   - Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

7. Surface casing shall be cemented to the surface.

4006 M

B&A Buys & Associates, Inc.
Environmental Consultants

2580 Creekview Road
Moab, Utah 84532
435/719-2018 435/719-2019 Fax

November 7, 2007

Mrs. Diana Mason
State of Utah
Division of Oil Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill—XTO Energy, Inc.
LCU 16-36F - 815' FSL & 471' FEL, SE/4 SE/4,
Section 36, T10S, R20E, SLB&M, Uintah County, Utah
43 047 39784

Dear Diana;

On behalf of XTO Energy, Inc. Buys & Associates, Inc. respectfully submits the enclosed original and one copy of the Application for Permit to Drill (APD) for the above referenced SITLA surface and mineral vertical well The location of the surface and target location as well as all points along the intended well bore path are within Cause No. 259-01 and are not within 460 feet of the unit boundary or any uncommitted tracts. Included with the APD is the following supplemental information:

Exhibit "A" - Survey plats, layouts and photos of the proposed well site;

Exhibit "B" - Proposed location maps with access and utility corridors;

Exhibit "C" - Production site layout;

Exhibit "D" - Drilling Plan;

Exhibit "E" - Surface Use Plan with APD Certification;

Exhibit "F" - Typical BOP and Choke Manifold diagram;

Exhibit "G" - Cultural and Paleontological Clearance Reports.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Ken Secrest of XTO Energy, Inc. at 435-722-4521 if you have any questions or need additional information.

Sincerely,

Don Hamilton

Don Hamilton
Agent for XTO Energy, Inc.

cc: Fluid Mineral Group, BLM—Vernal Field Office
Ken Secrest, XTO Energy, Inc.

FILE COPY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

RECEIVED
VERNAL FIELD OFFICE
2007 NOV -9 PM 2:37
DEPT. OF THE INTERIOR
BUREAU OF LAND MGMT

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO: ML-47391	6. SURFACE: State
7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
8. UNIT or CA AGREEMENT NAME: Little Canyon Unit	

1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐

B. TYPE OF WELL: OIL ☐ GAS ☑ OTHER _____ SINGLE ZONE ☐ MULTIPLE ZONE ☑

2. NAME OF OPERATOR: XTO Energy, Inc.	9. WELL NAME and NUMBER: LCU 16-36F
3. ADDRESS OF OPERATOR: P.O. Box 1360 CITY Roosevelt STATE UT ZIP 84066 / PHONE NUMBER: (435) 722-4521	10. FIELD AND POOL, OR WILDCAT: undesignated
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 815' FSL & 471' FEL, AT PROPOSED PRODUCING ZONE:	11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 36 10S 20E S
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 13.64 miles southeast of Ouray, Utah	12. COUNTY: Uintah / 13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): 471'	16. NUMBER OF ACRES IN LEASE: 640 / 17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): 1,601'	19. PROPOSED DEPTH: 9,060 / 20. BOND DESCRIPTION: 104312 762
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5,370' ungraded ground	22. APPROXIMATE DATE WORK WILL START: 1/15/2008 / 23. ESTIMATED DURATION: 14 days

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12-1/4"	9-5/8"	J-55 ST	36#	2,200	see Drilling Plan
7-7/8"	5-1/2"	N-80 LT	17#	9,060	see Drilling Plan

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☐ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
☑ COMPLETE DRILLING PLAN
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Don Hamilton TITLE Agent for XTO Energy, Inc.

SIGNATURE Don Hamilton DATE 11/7/2007

(This space for State use only)

API NUMBER ASSIGNED: _____

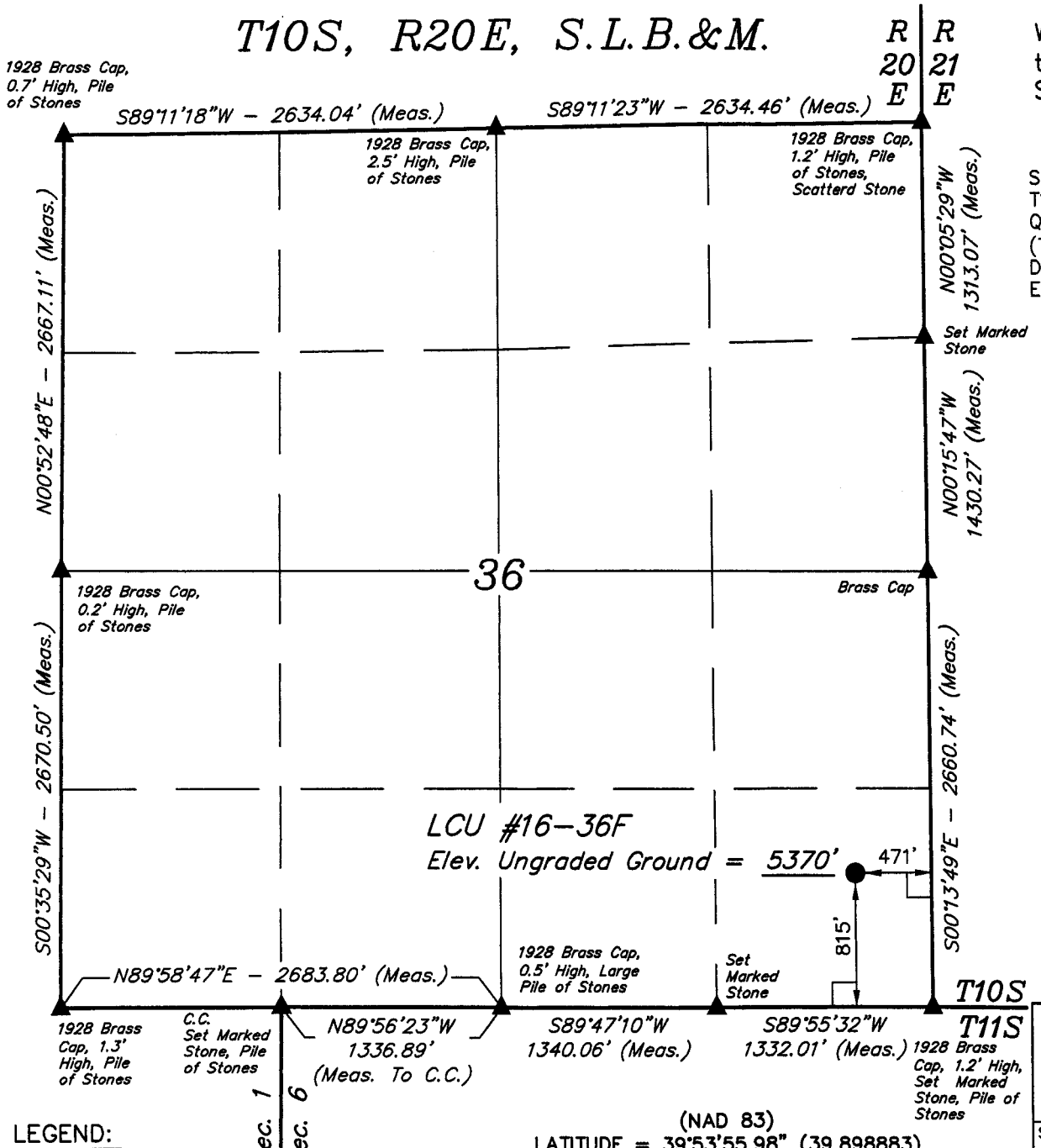
APPROVAL:

ACCEPTED BY BLM FOR
UNIT PURPOSES ONLY
RECEIVED FEB 5 2008
FEB 07 2008
DIV. OF OIL, GAS & MINING

(11/2001) (See Instructions on Reverse Side)

XTO ENERGY, INC.

Well location, LCU #16-36F, located as shown in the SE 1/4 SE 1/4 of Section 36, T10S, R20E, S.L.B.&M., Uintah County Utah.

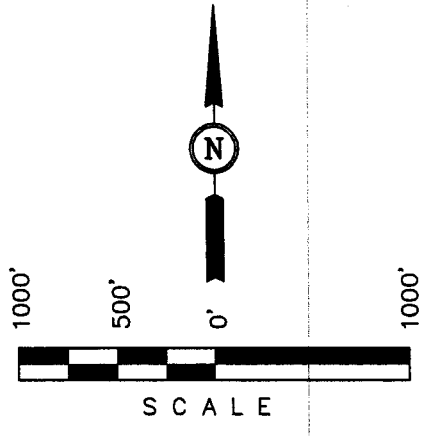


BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R20E, S.L.B.&M., TAKEN FROM THE BIG PACK MTN. NW, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5251 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No. 161319 STATE OF UTAH

ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 39°53'55.98" (39.898883)
LONGITUDE = 109°36'20.55" (109.605708)
(NAD 27)
LATITUDE = 39°53'56.10" (39.898917)
LONGITUDE = 109°36'18.07" (109.605019)

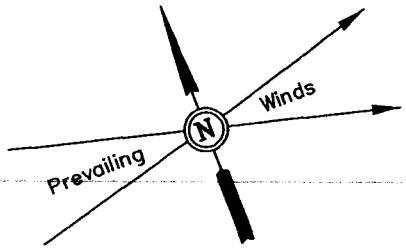
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	09-13-07	09-18-07
PARTY: B.B. K.D. S.L.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: XTO ENERGY, INC.	

XTO ENERGY, INC.

LOCATION LAYOUT FOR

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL



Proposed Access Road

F-4.6'
El. 64.6'

C-3.4'
El. 72.6'

T.S.

F-0.3'
El. 68.9'

7 8 9

65'

Sta. 3+

SCALE: 1" = 50'
DATE: 09-18-07
Drawn By: S.L.

Approx. Top of Cut Slope

DATA

155'

175'

Pit Topsoil

CATWALK

PIPE RACKS

FLARE PIT

El. 75.0'
C-5.8'

El. 72.8'
C-3.6'

C-0.5'
El. 69.7'

Approx. Toe of Fill Slope

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

Total Pit Capacity W/2' of Freeboard = 9,920 Bbls. ±
Total Pit Volume = 2,810 Cu. Yds.

6 C

27'

9'

LOC.

DOG HOUSE

RIG

135'

Sta. 1+80

1

F-3.0'
El. 66.2'

B

60'

38'

5

El. 77.1'
C-17.9'
(btm. pit)

El. 72.7'
C-3.5'

WATER

TRAILER

PUMP

TOILET

Slope = 1-1/2:1

MUD TANKS

MUD SHED

HOPPER

FUEL

Reserve Pit Backfill & Spoils Stockpile

189'

180'

POWER

10' WIDE BENCH

TOOLS

FUEL

RESERVE PITS
(10' Deep)

Sta. 0+50

TRASH

STORAGE TANK

Sta. 0+00

A

El. 77.6'
C-18.4'
(btm. pit)

10' WIDE BENCH

4 3 2

C-7.0'
El. 76.2'

C-5.9'
El. 75.1'

Topsoil Stockpile

C-3.4'
El. 72.6'

Elev. Ungraded Ground at Location Stake = 5369.7'
Elev. Graded Ground at Location Stake = 5369.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

XTO ENERGY, INC.

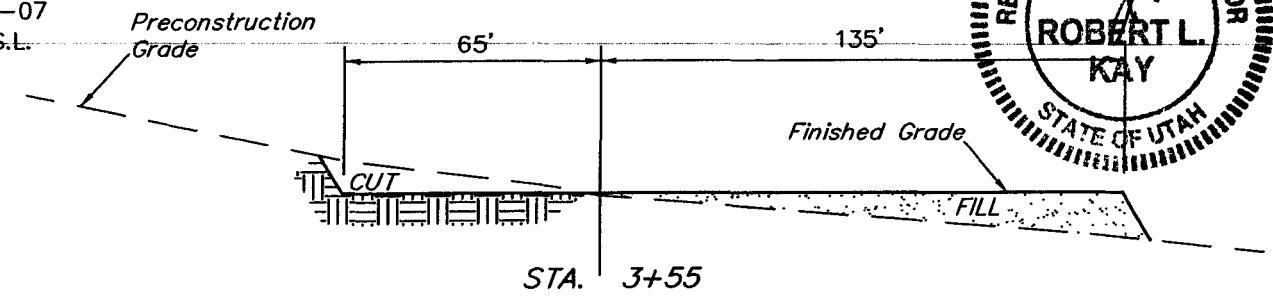
TYPICAL CROSS SECTIONS FOR

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

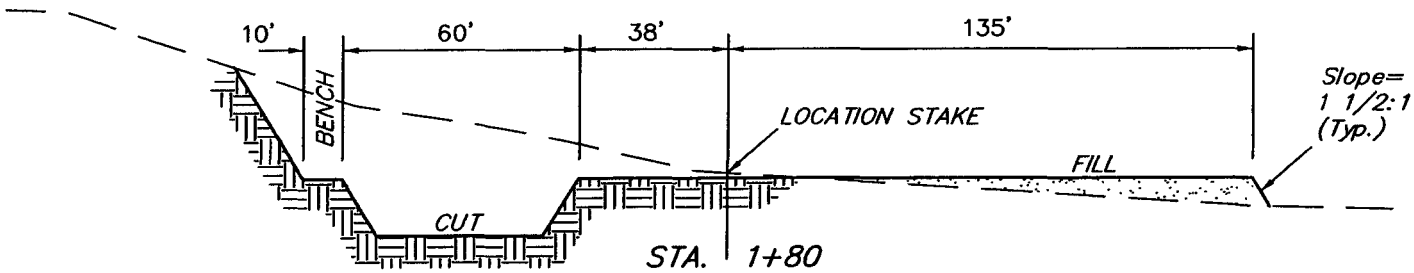
1" = 20'
X-Section Scale
1" = 50'

DATE: 09-18-07
Drawn By: S.L.

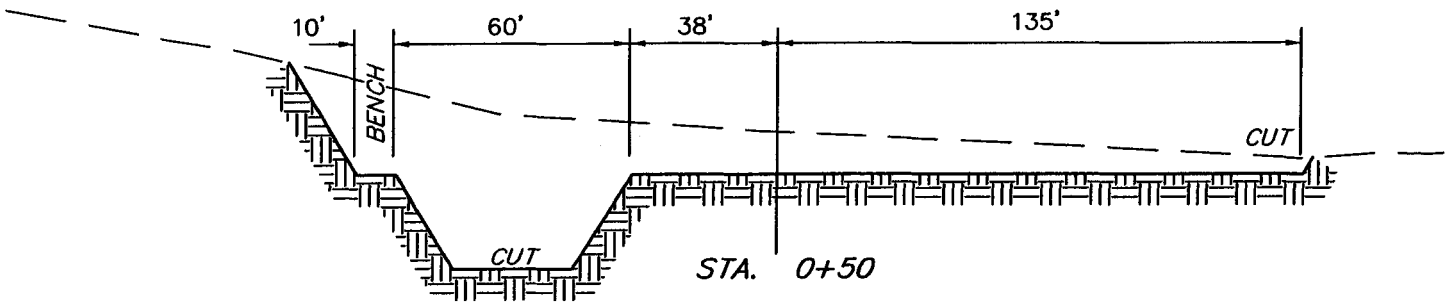
REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



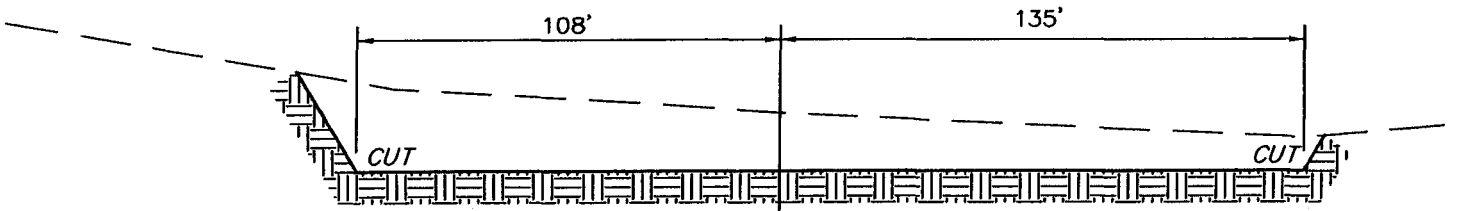
STA. 3+55



STA. 1+80



STA. 0+50



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping = 1,740 Cu. Yds.

Remaining Location = 10,310 Cu. Yds.

TOTAL CUT = 12,050 CU.YDS.

FILL = 2,780 CU.YDS.

EXCESS MATERIAL = 9,270 Cu. Yds.

Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,150 Cu. Yds.

EXCESS UNBALANCE (After Interim Rehabilitation) = 6,120 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
*85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017*

XTO ENERGY, INC.

LCU #16-36F

LOCATED IN UINTAH COUNTY, UTAH
SECTION 36, T10S, R20E, S.L.B.&M.

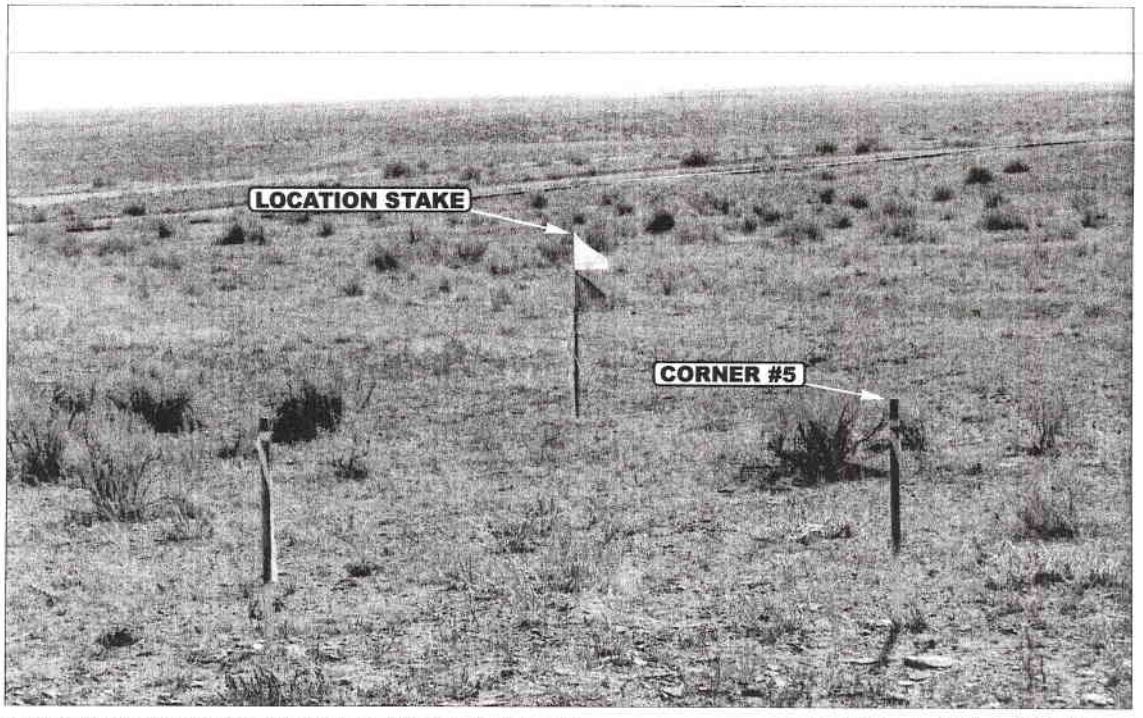


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: SOUTHEASTERLY**

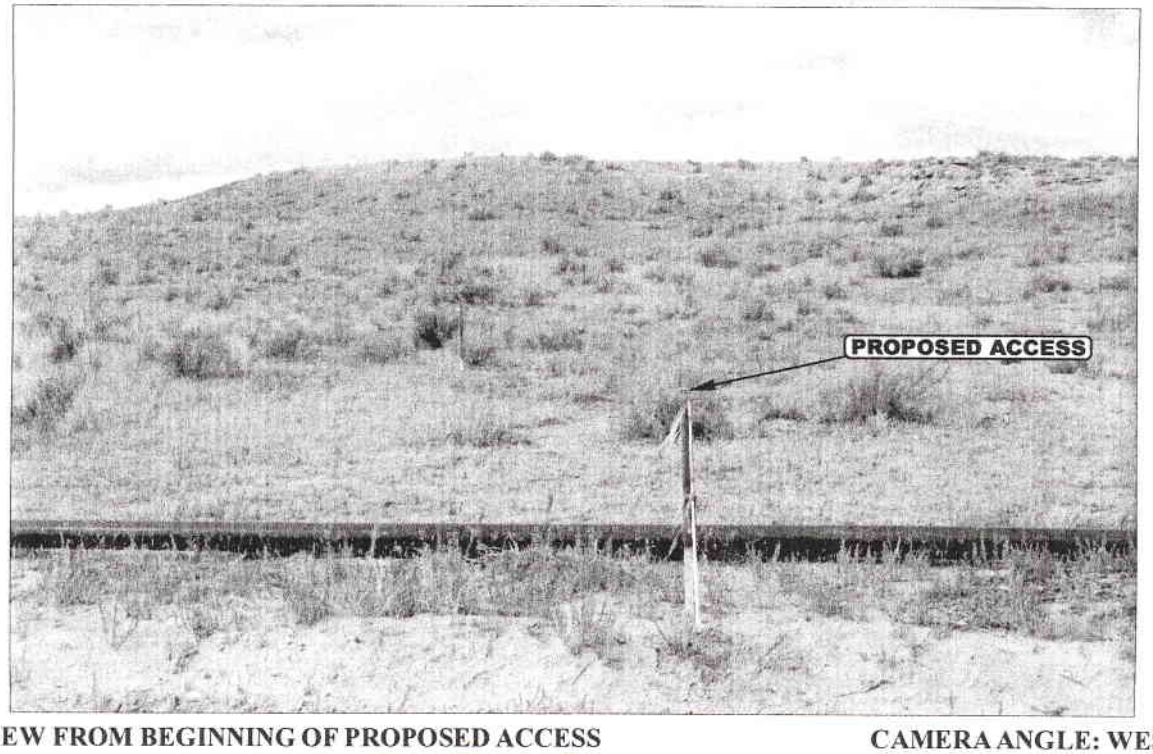
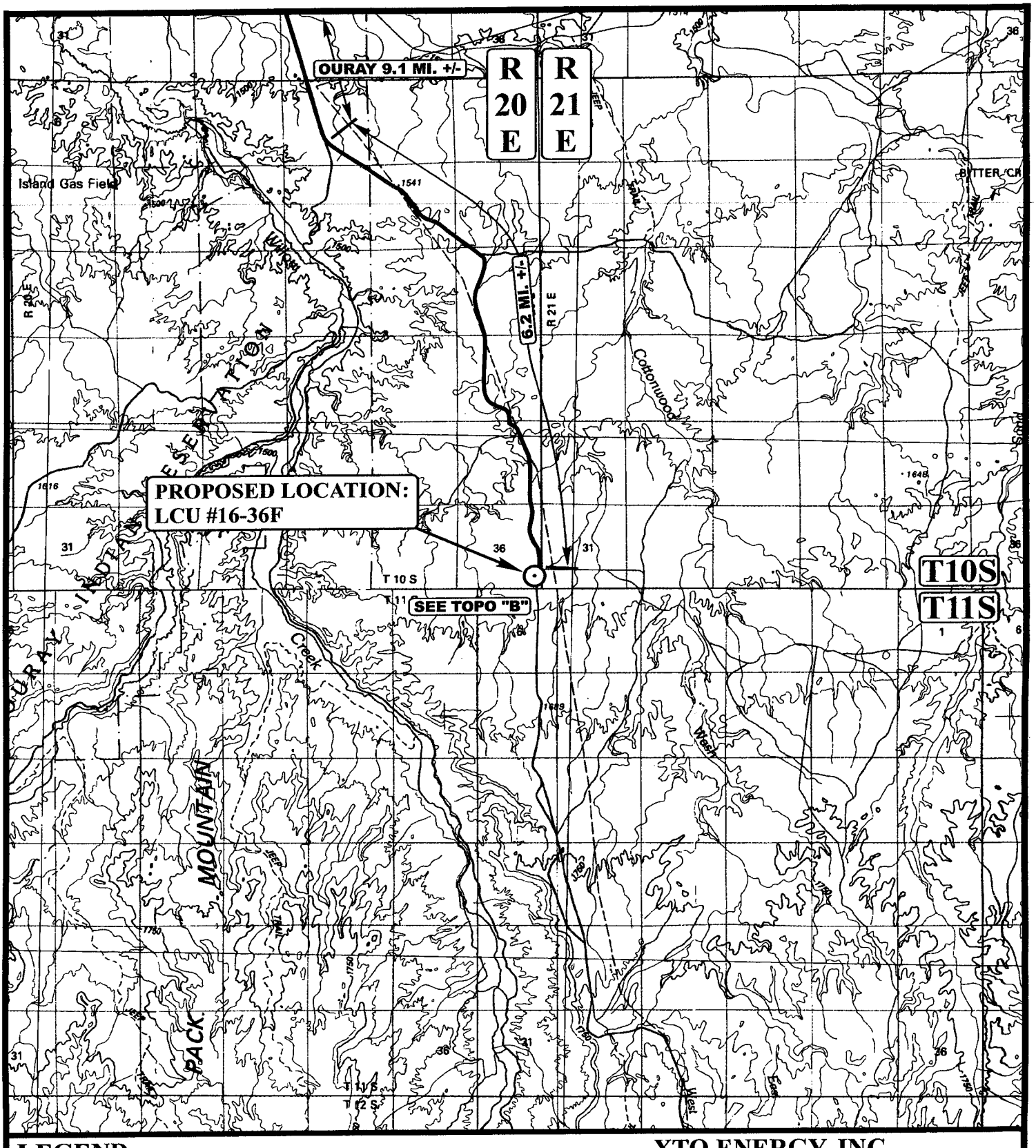


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: WESTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	09 MONTH	17 DAY	07 YEAR	PHOTO
TAKEN BY: B.B.	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

⊙ PROPOSED LOCATION

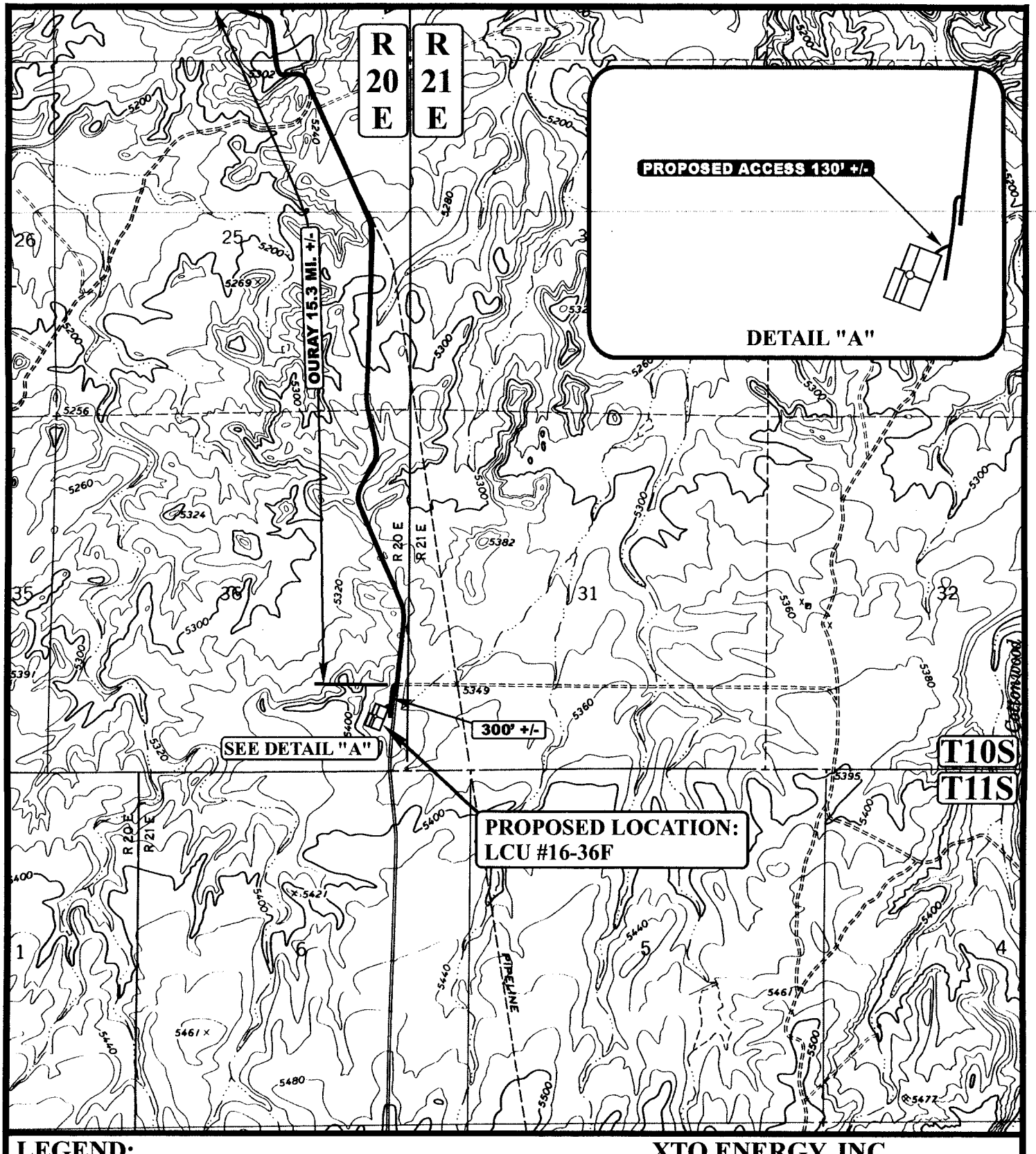
N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

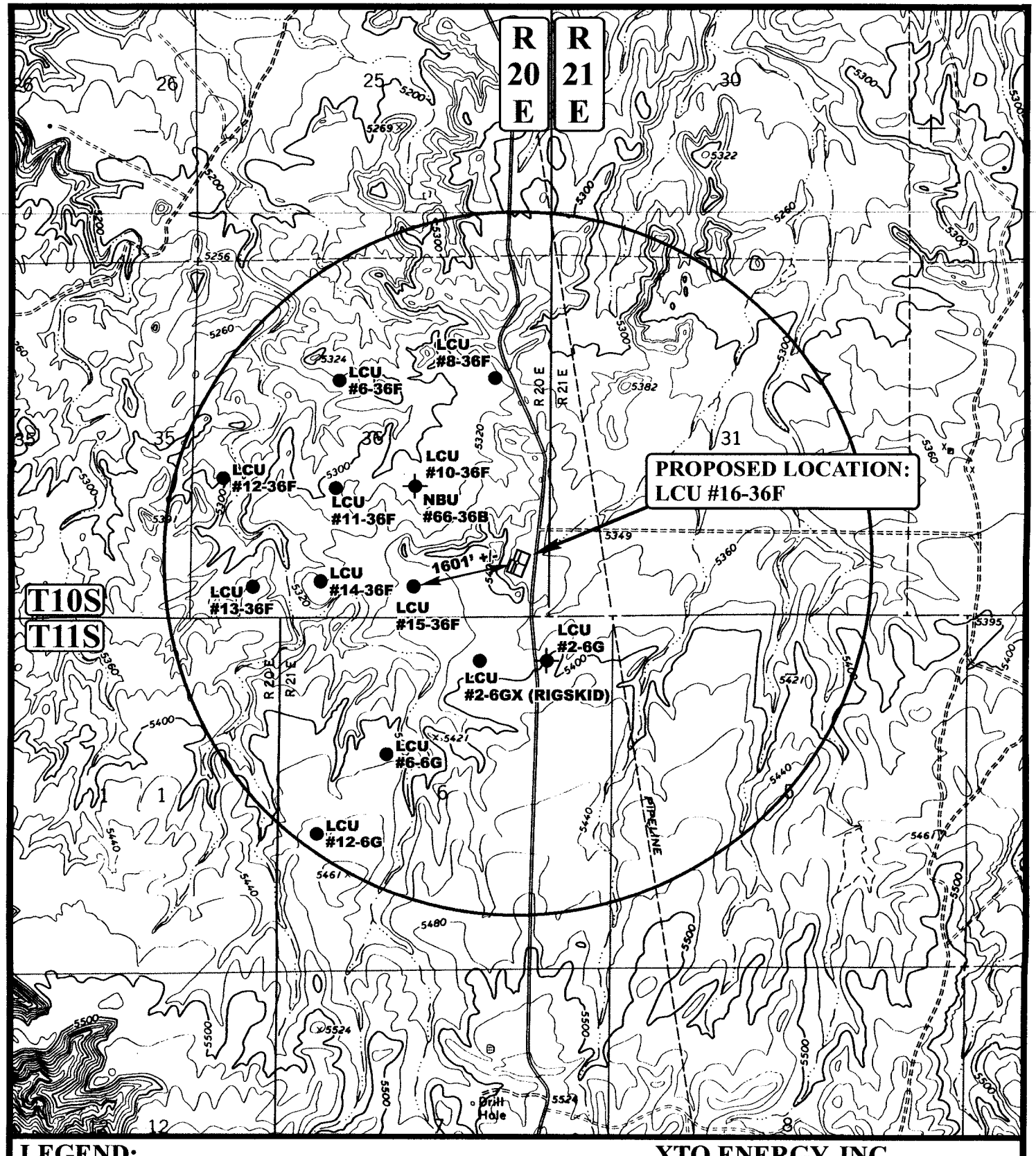
N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

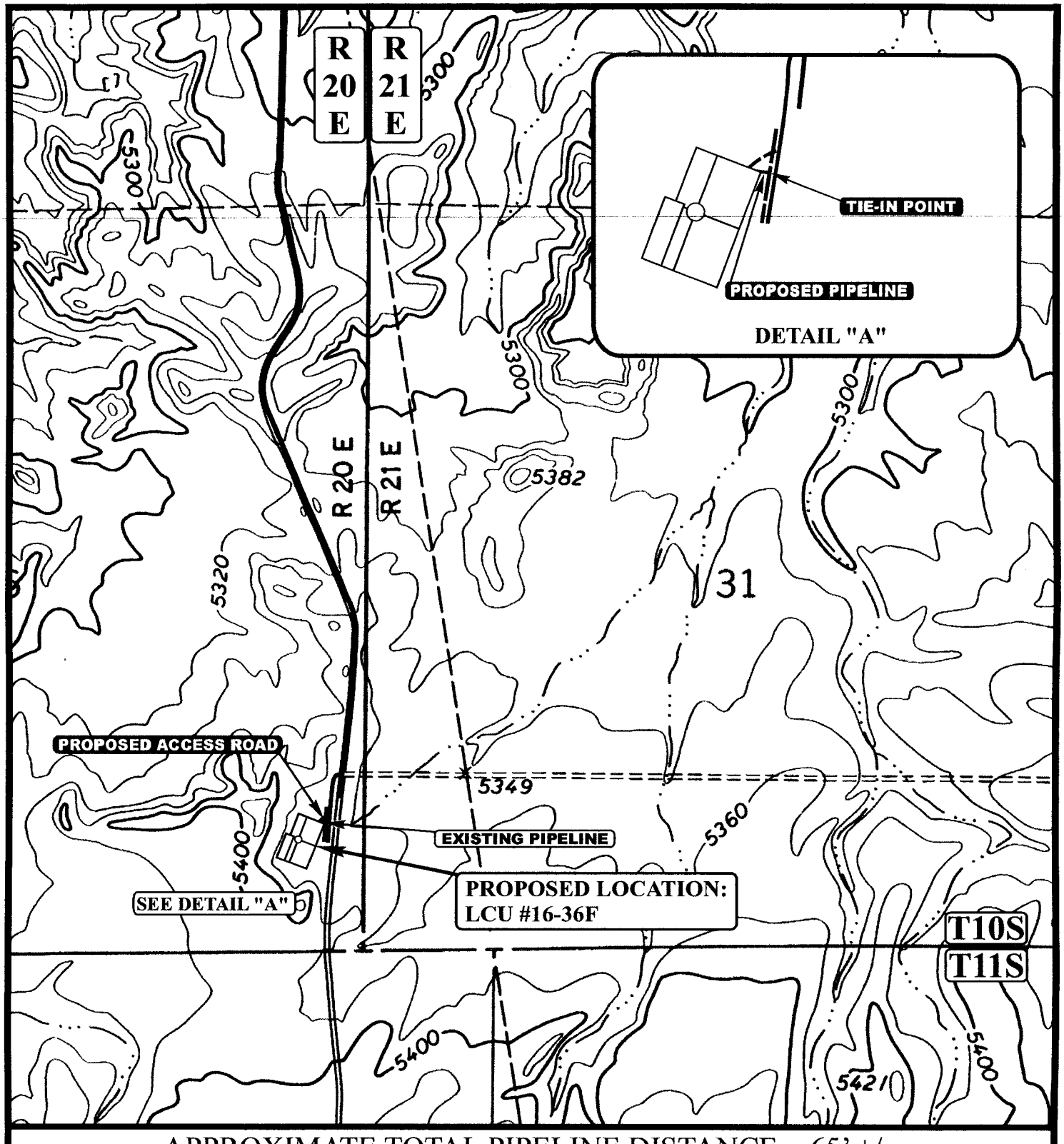
N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR
SCALE: 1" = 2000'	DRAWN BY: C.C.	REVISED: 00-00-00	C TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 65' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.L.B.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.C.	REVISED: 00-00-00		

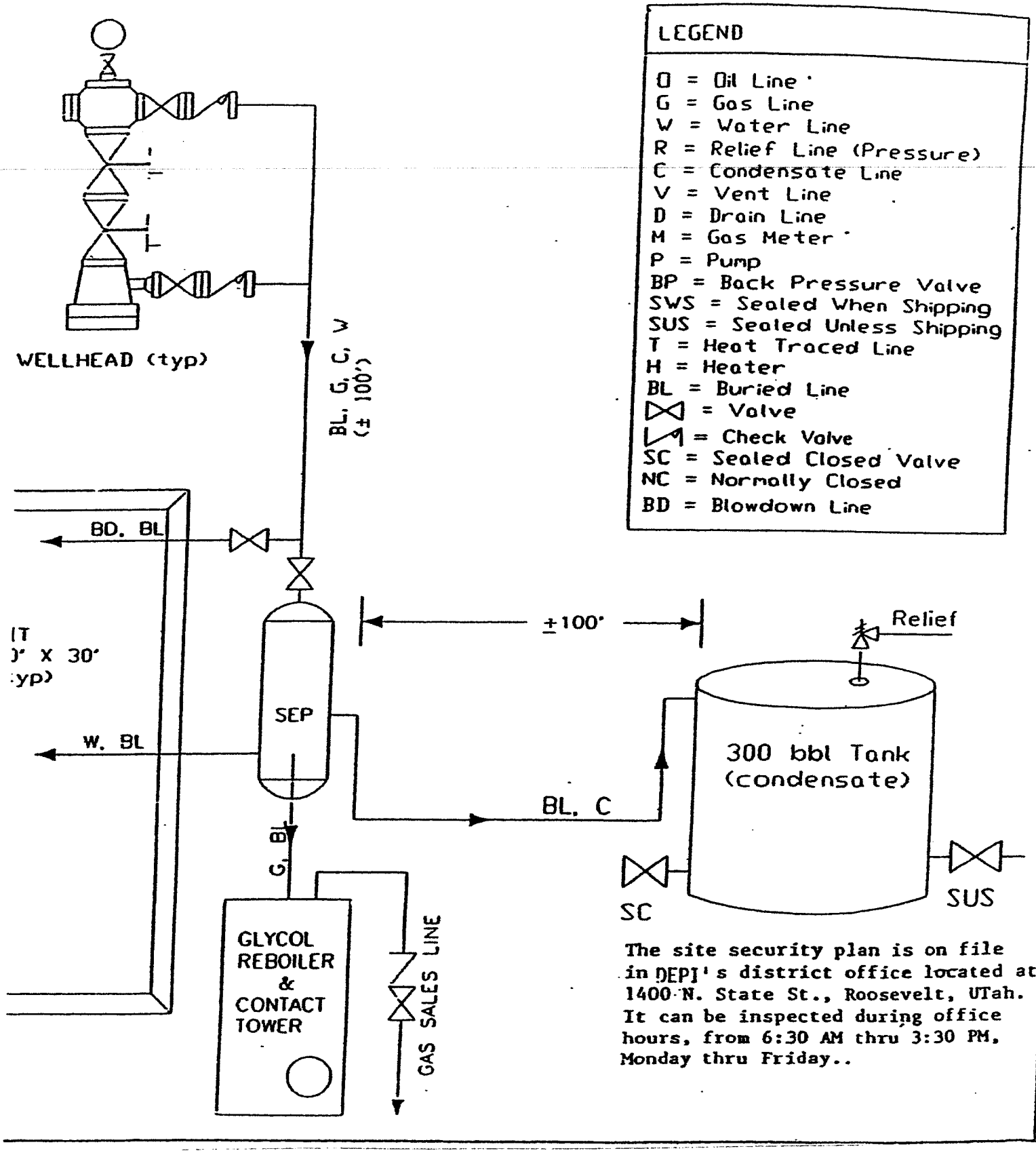
XTO ENERGY, INC.

LCU #16-36F

SECTION 36, T10S, R20E, S.L.B.&M.

PROCEED IN A SOUTHERLY THEN SOUTHEASTERLY DIRECTION FROM OURAY, UTAH APPROXIMATELY 9.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 6.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 300' TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 130' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM OURAY, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 15.3 MILES.



The site security plan is on file in DEPJ's district office located at 1400 N. State St., Roosevelt, UTah. It can be inspected during office hours, from 6:30 AM thru 3:30 PM, Monday thru Friday..

XTO ENERGY INC.

LCU 16-36F
APD Data
November 6, 2007

Location: 815' FSL & 471' FEL, Sec. 36, T10S,R20E **County**: Uintah **State**: Utah

GREATEST PROJECTED TD: 9060' MD OBJECTIVE: Wasatch/Mesaverde
APPROX GR ELEV: 5370' Est KB ELEV: 5384' (14' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 2200'	2200' to 9060'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	KCl Based LSND / Gel Chemical
WEIGHT	8.4	8.6-9.20
VISCOSITY	NC	30-60
WATER LOSS	NC	8-15

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes. The mud system will be monitored visually/manually.

2. CASING PROGRAM:

Surface Casing: 9.625" casing set at ± 2200' in a 12.25" hole filled with 8.4 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-2200'	2200'	36#	J-55	ST&C	2020	3.66	394	8.921	8.765	2.10	3.66	4.97

Production Casing: 5.5" casing set at ±9060' in a 7.875" hole filled with 9.2 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-9060'	9060'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.83	2.26	2.26

Collapse and burst loads calculated at TVD with 0.1 psi/ft gas gradient back up.

3. WELLHEAD:

A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 8-5/8" 8rnd thread on bottom (or slip-on, weld-on) and 11-3/4" 8rnd thread on top.
B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 5,000 psig WP, 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

4. CEMENT PROGRAM:

A. Surface: 9.625", 36#, J-55, ST&C casing to be set at ±2200' in 12.25" hole.

LEAD:
±362 sx of Type V cement (or equivalent) typically containing accelerator and LCM.

TAIL:
225 sx of Type V cement (or equivalent) typically containing accelerator and LCM.

Total estimated slurry volume for the 9.625" surface casing is 956.5 ft^3. Slurry includes 35% excess of calculated open hole annular volume to 2200'.

B. Production: 5.5", 17#, N-80 (or equiv.), LT&C casing to be set at ±9060' in 7.875" hole.

LEAD:
±461 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.6 ppg, 3.12 ft^3/sk, 17.71 gal wtr/sx.

TAIL:
300 sx Class G or equivalent cement with poz, bonding additive, LCM, dispersant, & fluid loss mixed at 13.0 ppg, 1.75 cuft/sx, 9.09 gal/sx.

Total estimated slurry volume for the 5.5" production casing is 1965 ft^3. Slurry includes 15% excess of calculated open hole annular volume.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 15% or greater excess. The cement is designed to circulate on surface and intermediate casing strings.

5. LOGGING PROGRAM:

A. Mud Logger: The mud logger will come on at intermediate casing point and will remain on the hole until TD. The mud will be logged in 10' intervals.

B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (9060') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (9060') to 2200'.

6. FORMATION TOPS:

FORMATION	Sub-Sea Elev. (@SHL)	TVD (@SHL)
Wasatch Tongue	1,670	3,719
Green River Tongue	1,340	4,049
Wasatch*	1,210	4,179
Chapita Wells*	475	4,914
Uteland Buttes	-695	6,084
Mesaverde*	-1,465	6,854
Castlegate	N/A	N/A
TD**	-3781	9090

* *Primary Objective*

7. ANTICIPATED OIL, GAS, & WATER ZONES:

A.

Formation	Expected Fluids	Well Depth Top
Wasatch Tongue	Oil/Gas/Water	3,719
Green River Tongue	Oil/Gas/Water	4,049
Wasatch*	Gas/Water	4,179
Chapita Wells*	Gas/Water	4,914
Uteland Buttes	Gas/Water	6,084
Mesaverde*	Gas/Water	6,854
Castlegate	Gas/Water	N/A

A. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.
B. There are no known potential sources of H_2S.
C. Expected bottom hole pressures are between 4100 psi and 4600 psi.

8. BOP EQUIPMENT:

Surface will not utilize a bop stack.

Intermediate hole will be drilled using a diverter stack with rotating head rated at 250 psi w.p.

Production hole will be drilled with a 3000 psi BOP stack.

Minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double ram with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70% of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

a. when initially installed:

b. whenever any seal subject to test pressure is broken

c. following related repairs: and

d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) shall be held open or the ball removed.

SURFACE USE PLAN

CONDITIONS OF APPROVAL

Name of Operator:	XTO Energy, Inc.
Address:	P.O. Box 1360; 978 North Crescent Roosevelt, Utah 84066
Well Location:	LCU 16-36F 815' FSL & 471' FEL, SE/4 SE/4, Section 36, T10S, R20E, SLB&M, Uintah County, Utah

A Uintah County Road encroachment is necessary to construct the new access from the existing Uintah County Road 2810 (Seep Ridge Road).

The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of approval before initiating construction.

The onsite inspection for the referenced well is pending at this time.

1. Location of Existing Roads:

   a. The proposed well site is located approximately 13.64 miles southeast of Ouray, UT.

   b. Directions to the proposed well site have been attached at the end of Exhibit B.

   c. The use of roads under State and County Road Department maintenance are necessary to access the Little Canyon Unit area. A Uintah County Road encroachment is necessary to construct the new access from the existing Uintah County Road 2810 (Seep Ridge Road).

   d. All existing roads will be maintained and kept in good repair during all phases of operation.

   e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.

   f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.

   g. An off-lease federal Right-of-Way is not anticipated for the access road since access presently exists to the lease boundary servicing the LCU 16-36F.

2. New or Reconstructed Access Roads:

   a. From the existing Uintah County Road 2810 (Seep Ridge Road) an access is proposed trending southwest approximately 130' to the proposed well site. The access consists of entirely new disturbance and crosses no significant drainages. A road design plan is not anticipated at this time.

   b. The proposed access road will consist of a 24' travel surface within a 30' disturbed area.

   c. SITLA approval to construct and utilize the proposed access road is requested with this application.

d. A maximum grade of 10% will be maintained throughout the project with no cuts and fills required to access the well.

e. No turnouts are proposed since the access road is only 130' long and adequate site distance exists in all directions.

f. No low-water crossings are necessary, One culvert is anticipated as the proposed access road leaves the county road surface. Adequate drainage structures will be incorporated into the road.

g. No surfacing material will come from federal or Indian lands.

h. No gates or cattle guards are anticipated at this time.

i. Surface disturbance and vehicular travel will be limited to the approved location access road.

j. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

k. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

a. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Existing and/or Proposed Production Facilities:

a. All permanent structures will be painted a flat, non-reflective Desert Brown /Carlsbad Canyon to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.

c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162. 7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

d. A tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.

e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.

f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.

g. The site will require periodic maintenance to ensure that drainages are kept open and free of

debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

h. A pipeline corridor containing a single steel gas pipeline and a single steel or poly pipe water pipeline is associated with this application and is being applied for at this time. The proposed pipeline corridor will leave the north side of the well site and traverse 65' east to the existing LCU 8-36F pipeline corridor

i. The gas pipeline will be a 12" or less buried line and the water pipeline will be a 12" or less buried line within a 75' wide disturbed pipeline corridor. The use of the proposed well site and access roads will facilitate the staging of the pipeline corridor construction. A new buried pipeline corridor length of approximately 65' is associated with this well.

j. An existing pipeline corridor upgrade is proposed from the existing LCU 8-36F tie-in location to the LCU compressor facility along the existing pipeline route.

k. The gas pipeline will be a 12" or less buried line and the water pipeline will be a 12" or less buried line within a single trench and within a 75' wide disturbed pipeline corridor. The use of the existing well site and access roads will facilitate the staging of the pipeline corridor upgrade. An upgrade to a 75' wide buried pipeline corridor of approximately 600' is associated with this application.

l. The proposed pipeline and pipeline upgrade are contained within SITLA surface.

m. XTO Energy, Inc. intends to bury the pipeline where possible and connect the pipeline together utilizing conventional welding technology.

5. Location and Type of Water Supply:

a. No water supply pipelines will be laid for this well.

b. No water well will be drilled for this well.

c. Drilling water for this will be hauled on the road(s) shown in Attachment No. 3.

d. Water will be hauled from one of the following sources:
   - Water Permit # 43-10447, Section 33, T8S, R20E;
   - Water Permit #43-2189, Section 33, T8S, R20E;
   - Water Permit #49-2158, Section 33, T8S, R20E;
   - Water Permit #49-2262, Section 33, T8S, R20E;
   - Water Permit #49-1645, Section 5, T9S, R22E;
   - Water Permit #43-9077, Section 32, T6S, R20E;
   - Tribal Resolution 06-183, Section 22, T10S, R20E;

6. Source of Construction Material:

a. The use of materials will conform to 43 CFR 3610.2-3.

b. No construction materials will be removed from Ute Tribal or BLM lands.

c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste:

a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.

b. Drill cuttings will be contained and buried on site.

c. The reserve pit will be located outboard of the location and along the west side of the pad.

d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.

e. The reserve pit will be lined with 16 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.

f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.

g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.

h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.

i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.

j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved XTO Energy, Inc. disposal well for disposal.

k. Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order #7.

l. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.

m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.

b. ~~No camps, airstrips or staging areas are proposed with this application.~~

9. Well Site Layout: (See Exhibit B)

a. The well will be properly identified in accordance with 43 CFR 3162.6.

b. Access to the well pad will be from the east.

c. The pad and road designs are consistent with SITLA specification

d. A pre-construction meeting with responsible company representative, contractors, and the SITLA will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.

e. The pad has been staked at its maximum size; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.

f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.

h. Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.

i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.

j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.

k. Pits will remain fenced until site cleanup.

l. The blooie line will be located at least 100 feet from the well head.

m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface (Interim Reclamation and Final Reclamation):

a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.

b. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated

before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.

c. Following BLM published Best Management Practices the interim reclamation will be completed within 90 days of completion of the well to reestablish vegetation, reduce dust and erosion and compliment the visual resources of the area.
   a. All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be backfilled and re-contoured.
   b. The area outside of the rig anchors and other disturbed areas not needed for the operation of the well will be re-contoured to blend with the surrounding area and reseeded at 12 lbs /acre with the following native grass seeds:
      - Crested Wheat Grass (6 lbs / acre)
      - Needle and Thread Grass (3 lbs / acre)
      - Rice Grass (3 lbs / acre)
   c. Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.

d. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the SITLA or the appropriate County Extension Office. On SITLA administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.

e. Prior to final abandonment of the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the SITLA. The SITLA recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

a. Surface Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.

b. Mineral Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.

12. Other Information:

a. Operators Contact Information:

Title	Name	Office Phone	Mobile Phone	e-mail
Company Rep.	Ken Secrest	435-722-4521	435-828-1450	Ken_Secrest@xtoenergy.com
Agent	Don Hamilton	435-719-2018	435-719-2018	starpoint@etv.net

b. AIA Archaeological has conducted a Class III archeological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by AIA Archaeological.

c. Alden Hamblin has conducted a paleontological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by Alden Hamblin.

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exists; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under XTO Energy, Inc's SITLA bond 104312-762. These statements are subject to the provisions of 18 U.S.C. 1001 for the fling of false statements.

Executed this 7th day of November, 2007.

Don Hamilton

Don Hamilton -- Agent for XTO Energy, Inc.
2580 Creekview Road
Moab, Utah 84532

435-719-2018
starpoint@etv.net

BOP Equipment

3000psi WP

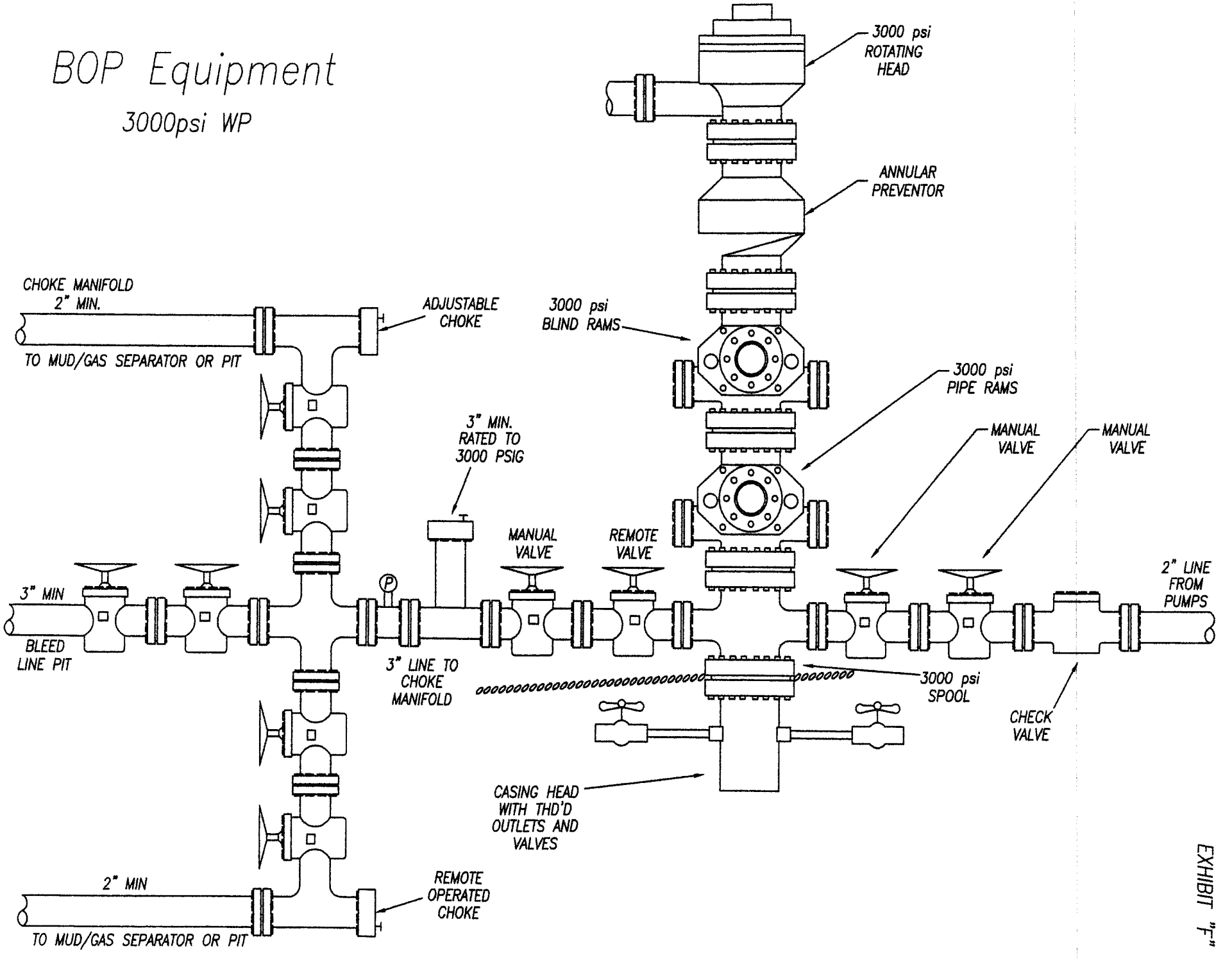


EXHIBIT "F"

XTO Energy Corporation; Little Canyon Unit #16-36F: A Cultural Resource Inventory for a well its access and pipeline, Uintah County, Utah.

By
James A. Truesdale

James A. Truesdale
Principal Investigator

Prepared For
XTO Energy Corporation
1400 North State Street
P.O.Box 1360
Roosevelt, Utah
84066

Prepared By
AN INDEPENDENT ARCHAEOLOGIST
P.O.Box 153
Laramie, Wyoming
82073

Utah Project # U-07-AY-1204(s)

October 10, 2007

Table of Contents

List of Figures

Introduction

An Independent Archaeologist (AIA) was contacted by a representative of XTO Energy Corporation to conduct a cultural resources investigation of the proposed Little Canyon Unit (LCU) #16-36F well, its access and pipeline. The location of the project area is the SE/SE 1/4 of Section 36, T10S, R20E Uintah County, Utah (Figure 1).

The proposed LCU #16-36F well's centerstake footage (Alternate #1) is 815' FSL, 471' FEL. The proposed LCU #16-36F well's centerstake Universal Transverse Mercator (UTM) coordinate is Zone 12, North American Datum (NAD) 83, 06/19/233.17mE 44/17/273.86mN.

The proposed access and pipeline is the existing Seep Ridge road and a pipeline that is adjacent immediately east of the proposed well pad.

The surface and minerals of Section 36 T10S R20E is administered by the Utah School Institutional Trust Land Administration (SITLA). A total of 10 acres (10 block, 0 linear) was surveyed. The fieldwork was conducted on October 4, 2007 by AIA owner and principal investigator James Truesdale and AIA staff Dr. David V. Hill. All the field notes and maps are located in the AIA office in Laramie, Wyoming.

File Search

A file search was conducted by the Office of the Utah Division of State History (UDSH), Antiquities Section, Records Division on May 24 and again on October 2, 2007. An additional file search was conducted at the Vernal BLM office in March of 2006 by the author. An update of AIA's USGS 7.5'/1968 (photorevised 1987) Big Pack Mountain NW quadrangle map from the UDSH's Big Pack Mountain NW quadrangle base map occurred on November 8, 2003 and again on February 3, 2004. The UDSH SHPO GIS file search reported that fourteen previous projects (U-97-AY-810, U-98-AY-283, U-01-AY-319, U-04-AY-079, U-05-AY-290, U-05-AY-332, U-05-AY-1074, U-06-AY-129, U-06-AY-130, U-06-AY-131, U-06-AY-132, U-06-AY-133, U-06-AY-424 and U-06-AY-426) have been conducted in the general area (Section 36 of T10S R20E). In addition, the Utah SHPO GIS files search indicated that one site (42UN5227) had been previously recorded in Section 36 of T10S R20E.

Site 42UN5227 is located in the SW/SE ¼ of Section 36 of T10S R20E. Thus the site is located 1/4 mile to the west of the present project area. The site will not be impacted by subsequent construction of the proposed LCU #16-36F well, its access or pipeline.

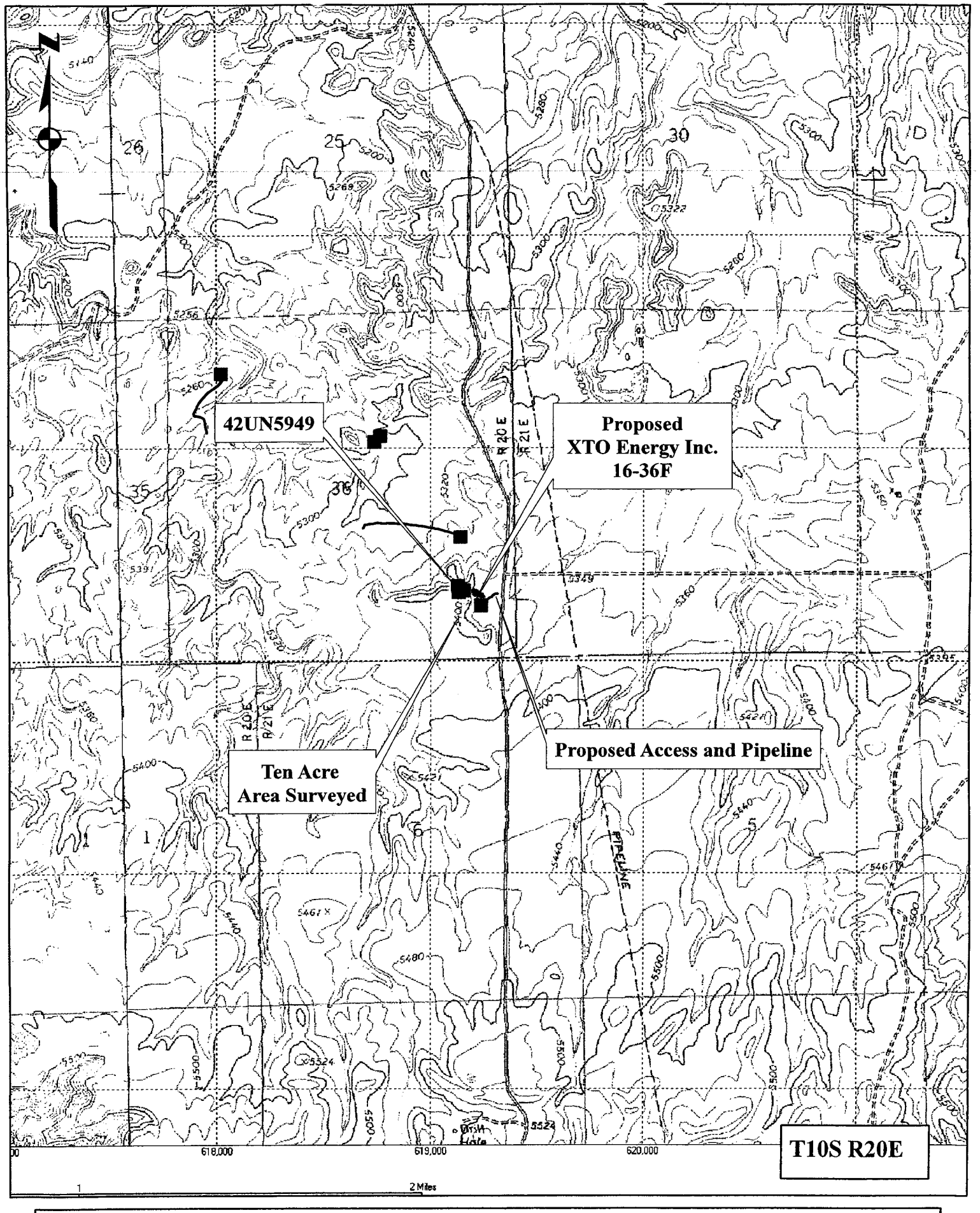


Figure 1. Location of the proposed XTO Energy Inc. 16-36F well, access and pipeline on 1968 7.5' USGS Quadrangle Map Big Pack Mountain NE, Uintah County, Utah.

Environment

Physiographically, the project is located in the Little Canyon Unit in the Uinta Basin, 14 miles south of Ouray, Utah. The Uinta Basin is structurally the lowest part of the Colorado Plateau geographical province (Thornbury 1965:425). The Uinta basin is a large, relatively flat, bowl shaped, east-west asymmetrical syncline near the base of the Uinta Mountains. The topography is characteristic of sloping surfaces that incline northward and are mainly dip slopes on the harder layers of Green River and Uinta Formations (Stokes 1986).

A thick section of more than 9000 feet (2743.9 m) of early Tertiary rocks are exposed (Childs 1950). These rocks are mainly Paleocene and Eocene in age and consist of sandstone, clay and shale lacustrine, fluviatile, and deltaic continental deposits, most famous of which are the lacustrine Green River Beds.

The immediate project area is situated on in the Willow Creek Canyon. The area is characterized as having steep ridges and/or buttes of relatively thick Uinta Formation sandstone, with thinner layers of clays and shale. The hills, ridges and buttes are dissected by several steep sided ephemeral drainage washes with wide flat alluvial plains. Portions of the desert hardpan and bedrock are covered with various sizes of residual angular to tabular pieces of eroding sandstone, clay and shale. Many of the higher hills and ridges exhibit ancient terrace (pediment) surfaces containing pebble and cobble gravel. Some of these pebbles and cobbles exhibit a dark brown to black desert varnish (patination). In addition, many of the hills and ridge slopes are covered with aeolian sand that may reach a depth of 100 to 150 cm.

Vegetation in the Little Canyon Unit area is characteristic of a low sagebrush community with shad scale and greasewood. Species observed in the project area include; big sagebrush (Artemesia tridentata), shadscale (Atriplex confertifolia), saltbush (Atriplex nuttallii), rabbitbrush (Chrysothamnus viscidiflorus), winterfat (Eurotia lanata), greasewood (Sarcobatus baileyi), wild buckwheat, Erigonum ovvalifolium), desert trumpet (Erigonum inflatum), Indian rice grass (Oryzopsis hymenoides), western wheatgrass (Agropyron smithii), spiked wheatgrass (Agropyron sp.), crested wheatgrass (Agropyron cristatum), June grass (Koeleria cristata), cheat grass (Bromus tectorum), desert globemallow (Bromus tectorum), lupine (Lupinus sp.), larkspur (Delphinium sp.), Indian paintbrush (Castilleja chromosa), peppergrass (Lepidium perfoliatum), scalloped phacelia (Phacelia intergrifolian), birdscage evening primrose (Oenothera deltoides), Russian thistle (Salsola kali), Russian knapweed (Centaurea repens), and prickly pear cactus (Opuntia sp.). In addition, a riparian community dominated by tall greasewood, cottonwood (Populas sp.), willow (Salix sp.), and salt cedar (tamerix) can be found along the Willow Creek Canyon bottom

Little Canyon Unit (LCU) #16-36F

The proposed LCU #16-36F well pad is situated at a small box like area at the base of the talus slope of a small upland hill and south to north trending ridge (Figures 2 and 3). The small hill and ridge is adjacent immediately west of the proposed well pad. The hill and ridge is part of an upland bench system of hills, ridges, benches and drainages that drain west to Willow Creek. A small southeast to northwest trending ephemeral drainage wash can be found to the south of the ridge. The sediments on the well location are colluvial in nature. These colluvial deposits consist of shallow (≤ 5 cm), tan to light brown, poorly sorted, moderately compacted, sandy clay loam, mixed with angular pieces of sandstone, clay and shale on the ridge tops and flat areas (Figure 3). Exposed and eroding tan to light brown sandstone and shale bedrock dominates the well pad landscape. Vegetation consists of low sagebrush, saltbush, rabbitbrush, greasewood, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), barrel and prickly pear cactus. The proposed well location is 5360 feet (1634.14 m) AMSL.

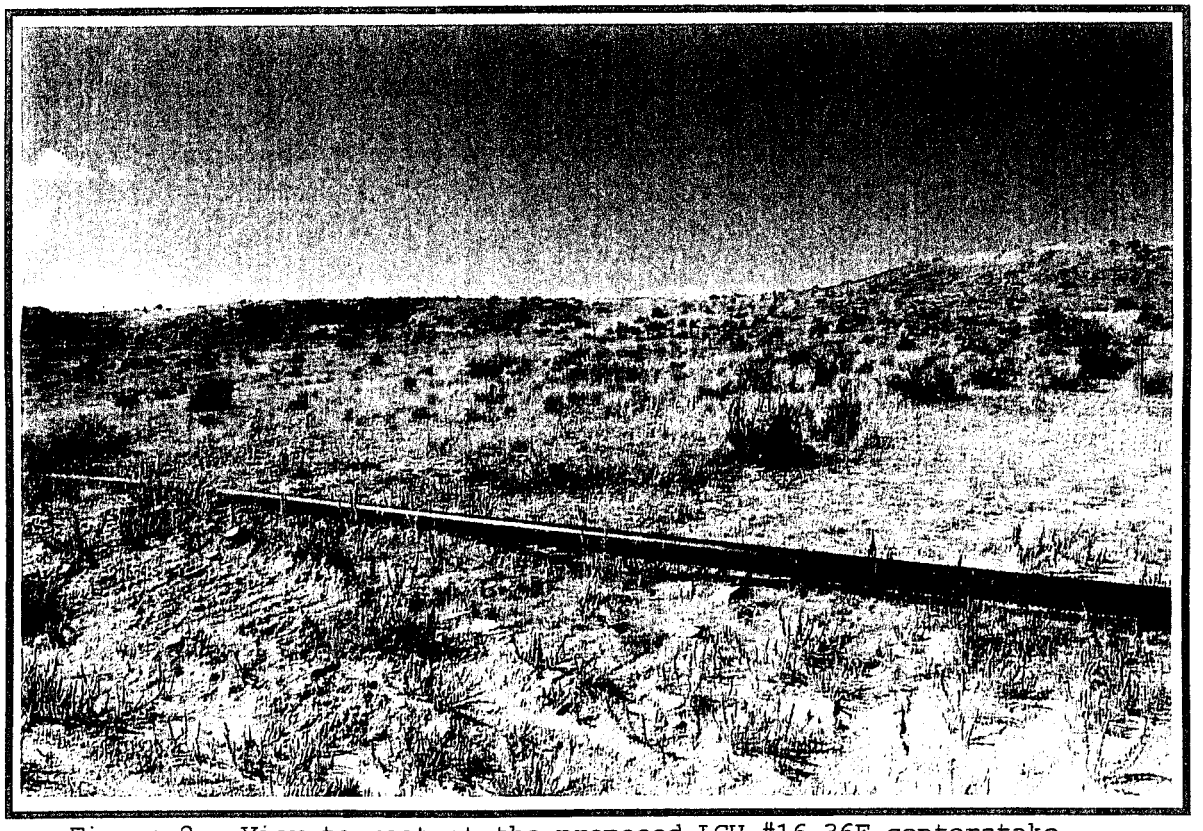


Figure 2. View to west at the proposed LCU #16-36F centerstake and well pad area.

From the existing Seep Ridge road and surface pipeline, the proposed access and pipeline parallel each other and trend 200 feet (60.9 m) southwest to the proposed LCU #16-36F well. The

access and pipeline cross a small open sagebrush flat to the proposed pipeline. Sediments along the pipeline consist of a shallow (5 to 10 cm), poorly sorted, loosely compacted, colluvial sandy clay loam. These colluvial deposits overlie sandstone, clay and shale bedrock. Vegetation along the access and pipeline is sparse and consists of low sagebrush, greasewood, rabbitbrush, saltbush, Russian thistle, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), and prickly pear cactus.

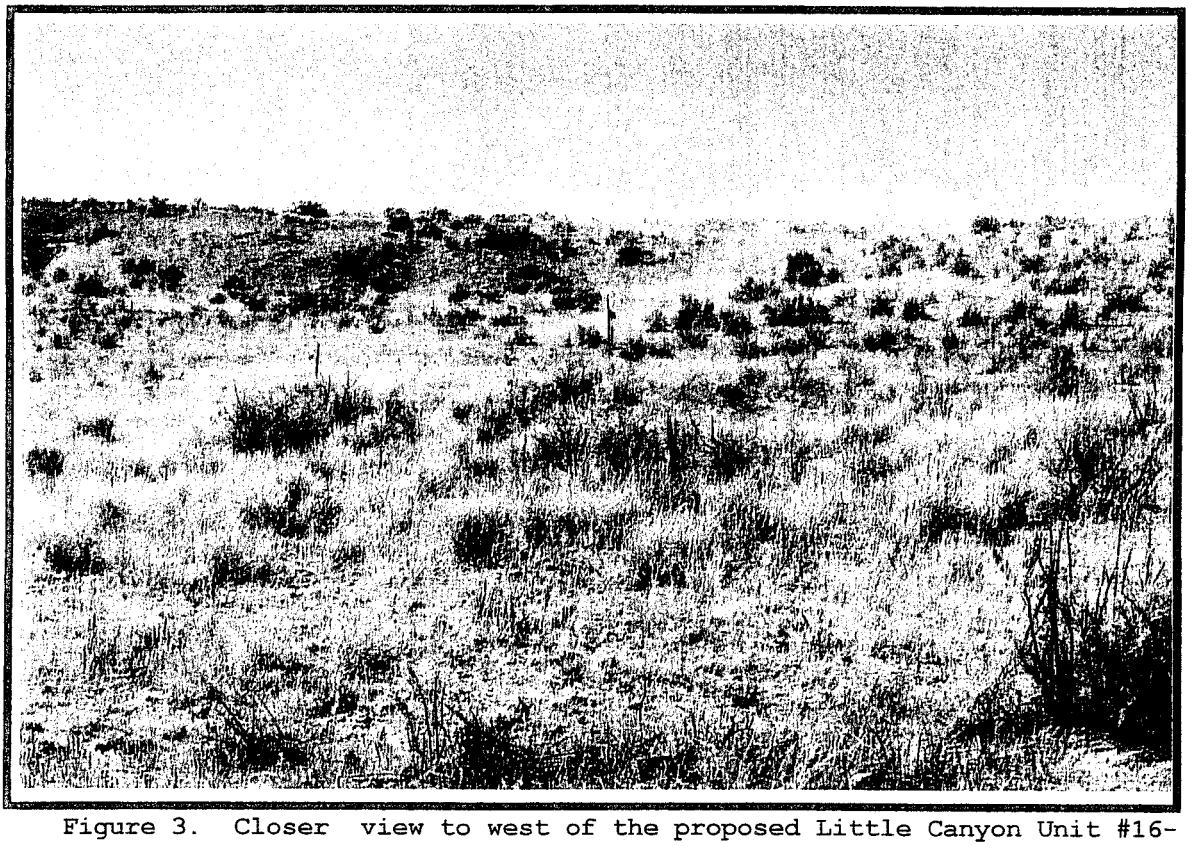


Figure 3. Closer view to west of the proposed Little Canyon Unit #16-36F well pad and the colluvial deposits on and surrounding the proposed LCU #16-36F well pad area.

Field Methods

A total of 10 acres was surveyed around the centerstake of the proposed LCU #16-36F well location to allow for relocation of the pad if necessary. The survey was accomplished by walking transects spaced no more than 15 meters apart. The proposed access and pipeline is the existing Seep Ridge road and surface pipeline that is located adjacent immediately east of the proposed well pad. Therefore, the proposed access and pipeline corridors are located within the 10 acre area surveyed around the proposed well centerstake. Thus, 0 linear acres was surveyed.

Geologic landforms (rockshelters, alcoves, ridge tops and saddles) and areas of subsurface exposure (ant hills, blowouts,

rodent holes and burrow, eroding slopes and cutbanks) were examined with special care in order to locate cultural resources (sites, isolates) and possibly help assess a site's sedimentary integrity and potential for the presence and/or absence of buried intact cultural deposits. All exposures of sandstone cliff faces, alcoves or rockshelters, and talus slopes were surveyed.

When cultural materials are discovered, a more thorough survey of the immediate vicinity is conducted in order to locate any associated artifacts and to determine the horizontal extent (surface area) of the site. If no other artifacts are located during the search then the initial artifact was recorded as an isolated find. At times, isolated formal tools (typical end scrapers, projectile points) were drawn and measured. The isolate was then described and its location plotted on a U.S.G.S. topographic map and UTM coordinates are recorded.

When sites are found an Intermountain Antiquities Computer System (IMACS) form was used to record the site. At all sites, selected topographic features, site boundaries, stone tools and cultural features (hearths, foundations, trash dumps and trails) are mapped. Sites were mapped with a Brunton compass, Trimble Geophysical 3 and/or Garmin E-Trex GPS units, and pacing off distances from a mapping station (datum, PVC with aluminum tag). All debitage is inventoried using standard recording techniques (Truesdale et al 1995:7) according to material type, basic flake type, and so on. Selected (mostly complete) stone tools and projectile points are drawn and measured. All features (rockart panel(s), hearths, foundations, trash dumps and trails) are measured and described, while selected features are either drawn or photographed.

Site location data is recorded by a Trimble GeoExplorer 3 Global Positioning System (GPS) and Garmin GPS III Plus and/or a E-Trex GPS. Site elevation and Universal Transverse Mercator (UTM) grid data, its Estimated Position Error (EPE) and Dilution of Precision (DOP) were recorded. Using the GPS data, the site location was then placed on a USGS 7.5' quadrangle map.

Results

A total of 10 (10 block, 0 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO Energy Corporation Little Canyon Unit (LCU) #16-36F well, and along its access and pipeline. One site (42UN5949) was recorded. The site is a historic/modern temporary ranching camp associated with a trash scatter. The site is considered to be non-significant and ineligible for nomination and inclusion to the National Register of Historic Places. No additional cultural resources (sites, isolates) were recorded on or around the proposed LCU #16-36F or along its access and pipeline.

A moderate scatter of modern trash (plastic bottles, sanitary

food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the Little Canyon Unit area.

Site: 42UN5949
Location: NE/NW/SE ¼ Section 36, T10S R20E (Figure 1)
UTM Coordinate: Zone 12, NAD 83, 06/19/131mE 44/17/352mN ±5m
06/19/200mE 44/17/333mN
06/19/233mE 44/17/313mN
06/19/215mE 44/17/273mN
06/19/134mE 44/17/322mN

Setting: Site 42UN5949 is situated on the top of a knoll and along the knolls eastern talus slope and a small open sagebrush area to the east. Vegetation is sparse and is characteristic of a sagebrush/short grass community. Vegetation consists of sagebrush, saltbush, greasewood, bunchgrasses (wheatgrass, Indian rice-grass), buckwheat, cheat grass, Russian thistle and prickly pear cactus. Sediments are shallow (<5 to 10 cm) and consist of poorly sorted, loosely compacted, sandy clay loam mixed with small to angular pieces of sandstone with smaller pieces of clay and shale. A small relatively thick layer of sandstone is exposed along the eastern side of the knoll. The elevation ranges between 5400 and 5360 feet (1646.34-1634.14 m) AMSL.

Description: Site 42UN5949 is a historic/modern temporary campsite associated with a moderate scatter of cans. The site measures 100 m (E-W) by 90 m (N-S), 9000 sq m. The site contains a fire pit, a stone bench, a wood (sagebrush) scatter, a wood board scatter and a scatter of clear, brown, and purple glass, over two hundred (n=200+) sanitary food cans, over fifty (n=50+) solder dot cans, over fifty (n=50+) tobacco cans, six (n=6) coffee cans, two (n=2) ½ gallon lard buckets, two cartridge shells and miscellaneous wire.

The fire pit, stone bench are situated on the top of a small hill (knoll) along the western portion of the site. The fire pit measures 123 cm (N-S) by 143 cm (E-W). The fire pit consists of over twenty pieces of fire reddened sandstone blocks. The fire pit contains no charcoal or charcoal stained sediments. The stone bench consists of four large angular sandstone blocks and a wood board that is positioned along the northern edge of the hill (knoll).

Glass bottle on the site consist of clear, brown and purple glass fragment. The clear glass bottle are represented by a clear glass round bottle base that exhibits a Owens Illinois Glass Co., Toledo, Ohio bottle makers mark that dates post 1968 (Toulouse 1971:403). This clear bottle is an olive bottle. A second clear round bottle base exhibits a GC makers mark that represents the Glass Containers Corp., Fullerton, Ca. and dates to post 1954 (Toulouse 1971:220). A third clear oval bottle base represents a

(Toulouse 1971:220). A third clear oval bottle base represents a KARO syrup bottle that exhibits a Owens Illinois Glass Co, Toledo, Ohio that dates to 1966 (Toulouse 1971:403).

The purple glass is represented by 10 unidentifiable bottle fragments.

Over two hundred (n=200+) sanitary food cans were inventoried at 42UN5949. In 1898 the AMs "solderless" cans were tested by the Cobb Preserving Co. The canned Bartlet pears and were quite successful with the results. The "solderless can" has also been called the "open top can", but is best known as the "sanitary can". The sanitary can production dominated can production in the West by 1911, however, did not take off until thirty years before they gained complete control of the market (Rock 1987:22). The cans at 42UN5949 date between circa 1950 and 1970's.

Over fifty (n=50+) solder dot cans were inventoried at 42UN5949. The solder dot can, "vent hole" or matchstick filler hole" can were introduced around the turn of the century. These cans are exclusively made for evaporated milk. The evaporated milk industry was by far the most frequent user of this type of can (Rock 1987:21).

Two cartridges were inventoried at the site. The first cartridge exhibits a W.R.A. Co. 303. Sav. Head stamp which represents Winchester Repeating Arms Company and a .303 Savage caliber. The .303 Savage caliber was originally developed as a potential military cartridge in 1895, however its was later introduced commercially as one of several calibers for the popular Savage Model 1899 (Barnes 1965:44). Savage discontinued the cartridge when production was resumed after World War II. In England it is known as the .301 Savage. No rifles are chambered for this round at the present time. The second cartridge exhibits a W.R.A. Co. W.C.F. .25-35 head stamp. The head stamp represents the Winchester Repeating Arms Co. Winchester Centerfire .25-35 caliber cartridge and dates between 1895 and 1945 (Berge 1980:230). The Winchester .25-35 was developed by Winchester and introduced in 1895 for the Model 94 lever action rifle (Barnes 1965:21). Along with the .30-30, it was one of the first small bore, smokeless powder, sporting cartridges developed in te united States. Winchester, Marlin and Savage all chambered repeating lever action rifles for this cartridge. Quite a few single shot rifles also chambered the .25-35 and in Europe it was used in combination type arms. The European designation is the 6.5x52Rmm (Barnes 1965:21). No American rifles have been made for the .25-35 since the end of World War II.

Sediments are shallow (<5 to 10 cm) and consist of tan to light brown, poorly sorted, loosely compacted sandy clay loam mixed with angular pieces of sandstone, clay and shale. The possibility of buried and intact cultural material at the site is low. The site also contain several modern brown beer bottles

(Budweiser, Killians), and soda pop and beer cans. The site is subjected to erosion, deflation and possible vandalism (collection). The site is considered to be in poor condition and in the latter stages of deflation.

National Register Status: Site 42UN5949 is a historic/modern temporary campsite associated with a moderate scatter of cans. The site appears to represent a temporary ranching camp that dates between 1954 and the 1970's.

Sediments are shallow (<5 to 10 cm) and consist of tan to light brown, poorly sorted, loosely compacted sandy clay loam mixed with angular pieces of sandstone, clay and shale. The possibility of buried and intact cultural material at the site is low. The site is subjected to erosion, deflation and possible vandalism (collection). The site is considered to be in poor condition and in the latter stages of deflation.

The site is not associated with any event(s) that has made a significant contribution to the broad pattern(s) of our history, not is it associated with the life or persons significant in our past; nor does it contain any features with distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that posses high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction. In addition, the site can not yield, or may likely yield any additional information important in prehistory or history. Thus 42UN5949 is considered to be not eligible for nomination and/or inclusion to the National Register of Historic Places (NRHP).

Recommendations

A total of 10 (10 block, 0 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO Energy Corporation Little Canyon Unit #16-36F well, and along its access and pipeline. One site (42UN5949) was recorded. The site is a historic/modern temporary ranching camp associated with a trash scatter. The site is considered to be non-significant and ineligible for nomination and inclusion to the National Register of Historic Places. No additional cultural resources (sites, isolates) were recorded on or around the proposed LCU #16-36F or along its access and pipeline.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the Little Canyon Unit area.

The site will be impacted by construction of the LCU #16-36F well, its access and pipeline. However, the site does not contain any attributes that make it significant or eligible to the NRHP.

Sediments on and surrounding the proposed well pad, and along its access and pipeline are shallow. Therefore, the possibility of buried and/or intact cultural materials on the proposed well pad or along its access and pipeline is low. Therefore, no additional archaeological work is necessary and clearance is recommended for the construction of the Little Canyon Unit #16-36F well pad, its access, and pipeline.

REFERENCES CITED

Barnes, Frank C.
1965 Cartridges of the World. The Gun Digest Company. Chicago, Illinois.

Berge, Dale L.
1980 Simpson Springs Station: Historical Archaeology In Western Utah 1974-1975. Brigham Young University Museum of Peoples and Cultures, Utah Bureau of Land ManagementCultural Resource Series, No.6.

Childs, O.E.
1950 Geologic history of the Uinta Basin, Utah Geological and Mineralogical Survey. Guidebook to the Geology of Utah, No. 5:49-59.

Rock, Jim
1987 A Brief Commentary on Cans. Cultural Resource Management.

Stokes, William D.
1986 Geology of Utah. Contributions by the Utah Museum of Natural History, and the Utah Geological and Mineral Survey Department of Natural Resources. Utah Museum of Natural History, Occasional Papers, No. 6.

Thornbury, William D.
1965 Regional Geomorphology of the United States. John Wiley & Sons, Inc.

Toulouse, Julian Harrison
1971 Bottle Makers and Their Marks. Thomas Nelson Inc., New York.

Truesdale, James A., Kathleen E Hiatt, and Clifford Duncan
1995 Cultural Resource Inventory of the Proposed Ouray Gravel Pit Location, Uintah-Ouray Ute Reservation, Uintah County, Utah. Report prepared for U & W Construction, Ft. Duchesne, Utah by AIA, Laramie, Wyoming.

PALEONTOLOGY EVALUATION SHEET

PROJECT: XTO Energy, Inc. – LCU #16-36F

LOCATION: 15 miles south of Ouray, Uintah County, Utah. Section 36, 815' FSL 471' FEL, T10S, R20E, S.L.B.&M.

OWNERSHIP: PRIV[ ] STATE[X] BLM[ ] USFS[ ] NPS[ ] IND[ ] MIL[ ] OTHER[ ]

DATE: October 2, 2007

GEOLOGY/TOPOGRAPHY: Rock outcrops in this area are the lower part of Uinta Formation, Eocene age. There is a short access road and pipeline to the well location which sits just west of the Seep Ridge Road on an east slope east of a round top hill. Area is of moderate to low relief. There are rock exposures next to the southeast corner and the pit will go into the hill with Uinta Formation. Surface is mostly slope wash and other alluvium.

PALEONTOLOGY SURVEY: YES [X] NO Survey [ ] PARTIAL Survey [ ]
Pedestrian Survey of Uinta Formation rock exposures at the well pad/pit and along the access road and pipeline.

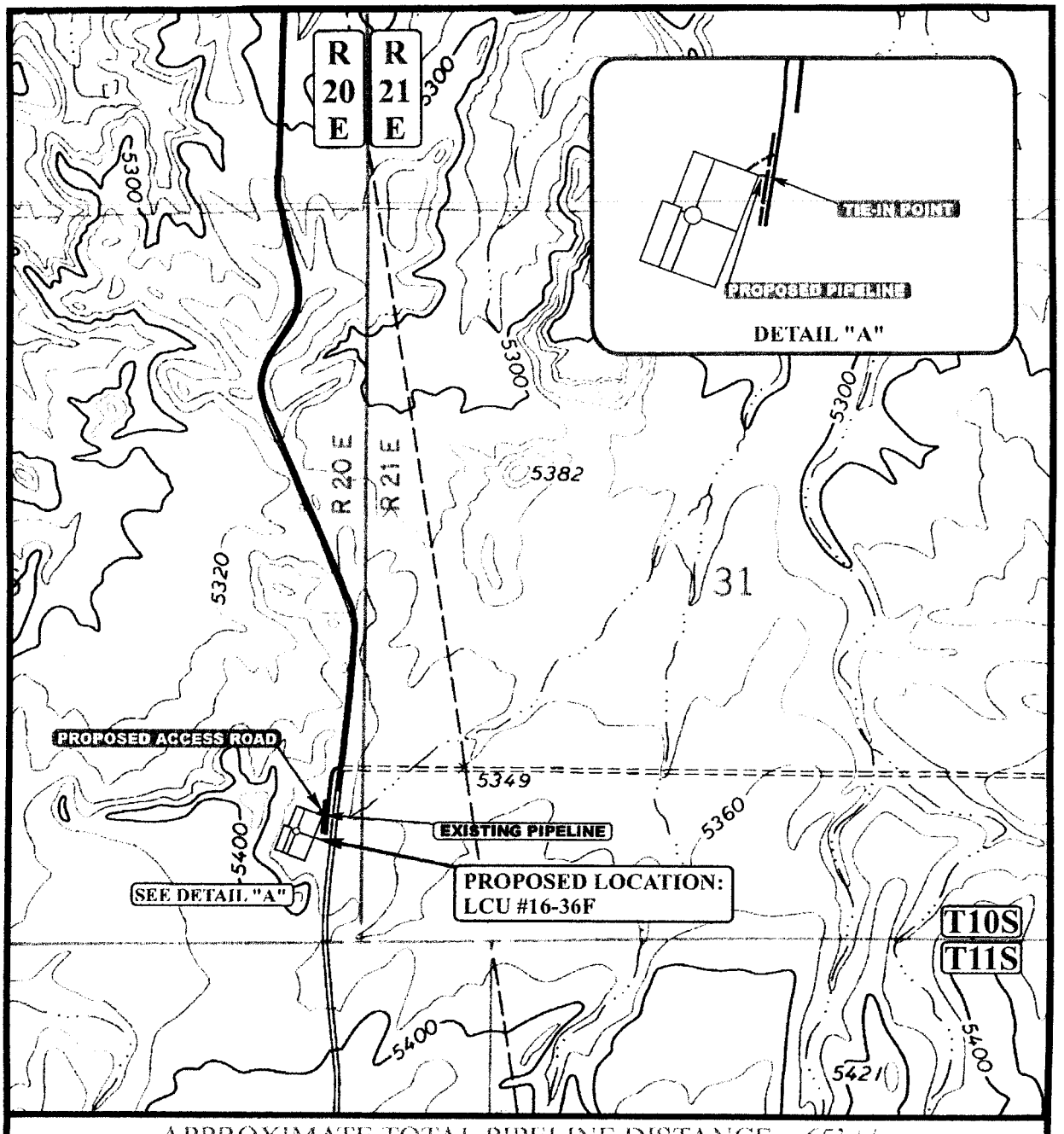
SURVEY RESULTS: Invertebrate [ ] Plant [ ] Vertebrate [ ] Trace [ ] No Fossils Found [X]

PALEONTOLOGY SENSITIVITY: HIGH [ ] MEDIUM [x] LOW [x] (PROJECT SPECIFIC)

MITGATION RECOMMENDATIONS: NONE [X] OTHER [ ] (SEE BELOW)

There is always some potential for discovery of significant paleontological resources in the Uinta Formation. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, etc.) are encountered during construction, work should stop in that area and a paleontologist should be contacted to evaluate the material discovered.

PALEONTOLOGIST: Alden H. Hamblin
A.H. Hamblin Paleontological Consulting, 3793 N. Minersville Highway, Cedar City, Utah 84720 (435) 867-8355
Utah State Paleontological Permit # 07-355, BLM paleontological Resources Permit # UT-S-05-02,
Utah Professional Geologist License – 5223011-2250.



APPROXIMATE TOTAL PIPELINE DISTANCE 65' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE

N

XTO ENERGY, INC.

LCU #16-36F
SECTION 36, T10S, R20E, S.I.L.&M.
815' FSL 471' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	17 DAY	07 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.C.	REVISED: 00-00-00		

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	ML-47391
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	N/A
7. UNIT or CA AGREEMENT NAME:	Little Canyon Unit
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER	8. WELL NAME and NUMBER: LCU 16-36F
2. NAME OF OPERATOR: XTO Energy, Inc.	9. API NUMBER: 4304739784
3. ADDRESS OF OPERATOR: P.O. Box 1360 CITY Roosevelt STATE UT ZIP 84066 / PHONE NUMBER: (435) 722-4521	10. FIELD AND POOL, OR WILDCAT: Natural Buttes

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 815' FSL & 471' FEL — COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 36 10S 20E S — STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
_____	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Permit Extension
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

XTO Energy, Inc. hereby requests a one year extension of the state permit for the referenced well.

This is the first extension that has been requested.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 12-01-08

By: _____

RECEIVED
DEC - 1 2008
DIV OF OIL, GAS & MINING

NAME (PLEASE PRINT) Kendell Johnson — TITLE Agent for XTO Energy, Inc.

SIGNATURE Kendell Johnson — DATE 11/14/2008

(This space for State use only)

COPY SENT TO OPERATOR
Date: 12.4.2008
Initials: KS

(5/2000) (See Instructions on Reverse Side)

[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 4304739784
Well Name: *LCU 16-36F*
Location: 815' FSL & 471' FEL, SE SE Sec. 36, T10S, R20E
Company Permit Issued to: XTO Energy, Inc.
Date Original Permit Issued: 12/17/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐No☑

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐No☑

Has the approved source of water for drilling changed? Yes☐No☑

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes☐No☑

Is bonding still in place, which covers this proposed well? Yes☑No☐

Kendell Johnson
Signature

11/14/2008
Date

Title: Kendell Johnson

Representing: XTO Energy, Inc.

API Well No: 43047397840000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-47391

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: LITTLE CANYON

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: LCU 16-36F

2. NAME OF OPERATOR: XTO ENERGY INC

9. API NUMBER: 43047397840000

3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 87410

PHONE NUMBER: 505 333-3159 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0815 FSL 0471 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 36 Township: 10.0S Range: 20.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 12/1/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

XTO hereby requests a one year extension on the State Permit for the referenced well.

Approved by the Utah Division of Oil, Gas and Mining

Date: November 30, 2009

By: Dustin Doucet

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Eden Fine	505 333-3664	Permitting Clerk
SIGNATURE N/A		**DATE** 11/30/2009

RECEIVED November 30, 2009

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047397840000

API: 43047397840000
Well Name: LCU 16-36F
Location: 0815 FSL 0471 FEL QTR SESE SEC 36 TWNP 100S RNG 200E MER S
Company Permit Issued to: XTO ENERGY INC
Date Original Permit Issued: 12/17/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Eden Fine **Date:** 11/30/2009
Title: Permitting Clerk **Representing:** XTO ENERGY INC

Date: November 30, 2009
By: Dallas Hill

RECEIVED November 30, 2009

GARY R. HERBERT
Governor
GREG BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

December 28, 2010

XTO Energy Inc.
382 Road 3100
Aztec, NM 87410

Re: APD Rescinded – Little Canyon Unit 16-36F, Sec. 36, T. 10S, R. 20E
Uintah County, Utah API No. 43-047-39784

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on December 17, 2007. On December 1, 2008 and November 30, 2009, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective December 17, 2010.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
Ed Bonner, SITLA

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING